

Notice: Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do **not** use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located.

See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 2 of 5

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name Nelson	First Denice	MI	Organization/ Business Name Tyco Fire Products LP
Mailing Address 2700 Industrial Parkway South		City Marinette	State WI
		ZIP Code 54143	
Phone # (include area code)	Fax # (include area code)	Email	

The requester listed above: (select all that apply)

- Is currently the owner
 Is considering selling the Property
 Is renting or leasing the Property
 Is considering acquiring the Property
 Is a lender with a mortgagee interest in the Property
 Other. Explain the status of the Property with respect to the applicant:

Contact Information (to be contacted with questions about this request)

Select if same as requester

Contact Last Name Johnson	First Shauna	MI	Organization/ Business Name Arcadis
Mailing Address 126 N Jefferson Street, Suite 400		City Milwaukee	State WI
		ZIP Code 53202	
Phone # (include area code) (312) 520-0305	Fax # (include area code)	Email shauna.johnson@arcadis.com	

Environmental Consultant (if applicable)

Contact Last Name Johnson	First Shauna	MI	Organization/ Business Name Arcadis
Mailing Address 126 N Jefferson Street, Suite 400		City Milwaukee	State WI
		ZIP Code 53202	
Phone # (include area code) (312) 520-0305	Fax # (include area code)	Email shauna.johnson@arcadis.com	

Section 2. Property Information

Property Name Tyco Fire Technology Center - PFCs	FID No. (if known) 438005590
BRRTS No. (if known) 0238580694	Parcel Identification Number
Street Address 2700 Industrial Parkway South	City Marinette
	State WI
	ZIP Code 54143
County Marinette	Municipality where the Property is located <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Marinette
	Property is composed of: <input type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels
	Property Size Acres 380

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 3 of 5

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

No Yes

Date requested by: _____

Reason: _____

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

No. **Include the fee that is required for your request in Section 3, 4 or 5.**

Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:

Section 3. Technical Assistance or Post-Closure Modifications;

Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- Schedule a Technical Assistance Meeting - **Include a fee of \$700.**
- Hazardous Waste Determination - **Include a fee of \$700.**
- Other Technical Assistance - **Include a fee of \$700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of \$1050, and:**
 - Include a fee of \$300 for sites with residual soil contamination; and
 - Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form Section 6. Other Information Submitted

Identify all materials that are included with this request.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

Phase I Environmental Site Assessment Report - Date: _____

Phase II Environmental Site Assessment Report - Date: _____

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 4 of 5

Legal Description of Property (required for all liability requests and specialized agreements)

Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

Groundwater Soil Sediment Other medium - Describe: _____

Date of Collection: _____

A copy of the closure letter and submittal materials

Draft tax cancellation agreement

Draft agreement for assignment of tax foreclosure judgment

Other report(s) or information - Describe: GETS Pre-Startup Monitoring Data Package

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

Yes - Date (if known): _____

No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at:

dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.


Section 7. Certification by the Person who completed this form

I am the person submitting this request (requester)

I prepared this request for: Denice Nelson

Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.


Signature

7/15/2022
Date Signed

Senior Environmental Specialist
Title

(312) 575-3732
Telephone Number (include area code)

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 5 of 5

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a [DNR regional brownfields specialist](#) with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

DNR NORTHERN REGION

Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION

Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION

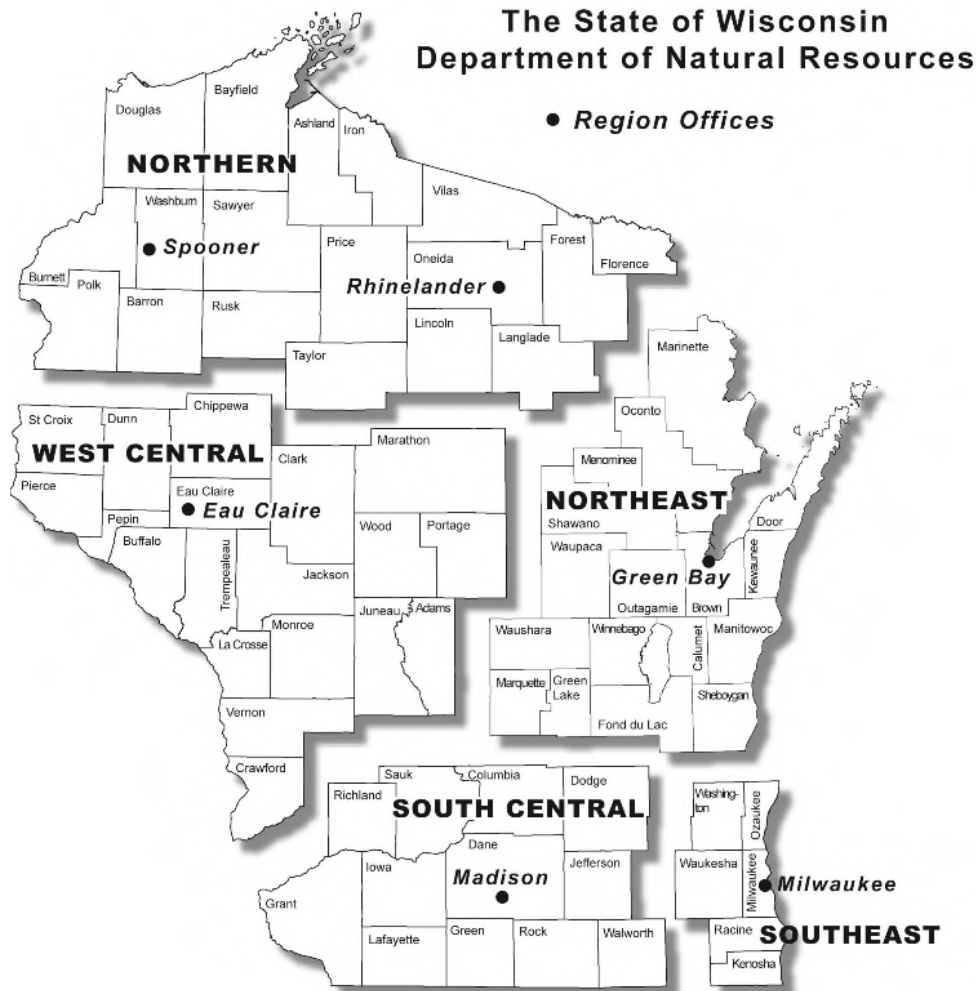
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION

Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION

Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

Ms. Alyssa Sellwood, P.E.
 Complex Sites Project Manager, Remediation and Redevelopment Program
 State of Wisconsin Department of Natural Resources
 101 South Webster Street
 Box 7921
 Madison, WI 53707-7921

Arcadis U.S., Inc.
 126 North Jefferson
 Street
 Suite 400
 Milwaukee
 Wisconsin 53202
 Phone: 414 276 7742
 Fax: 414 276 7603
www.arcadis.com

Date: July 15, 2022

BRRTS No.: 02-38-580694

Our Ref: 30129347

Subject: GETS Pre-Startup Monitoring Data Package
 Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI

Dear Ms. Sellwood,

On behalf of Tyco Fire Products LP (Tyco), Arcadis is providing this data package for groundwater extraction and treatment system (GETS) pre-startup monitoring activities related to the Tyco Fire Technology Center (FTC) per- or polyfluoroalkyl substances (PFAS) site located at 2700 Industrial Parkway South in Marinette, Wisconsin (Site).

This data package is being submitted in accordance with NR 724.13(3) and NR 724.17(3m), per the alternate notification schedule provided in the GETS Long Term Monitoring Plan (LTM Plan, Arcadis 2021b) and approved by Wisconsin Department of Natural Resources (WDNR 2021).

Pre-startup monitoring activities were conducted in accordance with the GETS Long Term Monitoring Plan (LTM Plan, Arcadis 2021b) and were planned to coincide with the period of permitting and construction of the GETS to monitor baseline conditions at the Site. **Table 1** below provides a summary of the work performed as well as the time period each monitoring event was performed. Exceptions to the GETS LTM Plan are noted below **Table 1**.

Table 1 – Pre-Startup Monitoring Activities

Media	Activity	Dates conducted
Groundwater	Water-level gauging at monitoring wells	July 12, 2021 and April 5, 2022
	Groundwater sampling (baseline event)	April 6-12, 2022 ¹
Surface Water ³	Water-level gauging at surveyed gauging locations	May 4, 2021
	Water-level gauging at mini-piezometers	July 13-24, 2021
	Surface water and mini-piezometer groundwater sampling ²	September 8, 2021
	Ditch B surface water treatment system influent sampling	November 16, 2021
		Monthly from May 2021 to May 2022, dates varied per month

Notes:

1. Collection of baseline groundwater samples from the GETS extraction wells was proposed in the GETS LTM Plan; however, the extraction wells were inaccessible at the time of the baseline sampling event. As such, groundwater samples were collected from each piezometer paired with an extraction well (e.g., a sample was collected from MW-EX-3 instead of EX-3). Because the extraction wells will be sampled in future LTM events, continued groundwater sampling at the paired piezometers is not anticipated.
2. Collection of groundwater samples from the mini-piezometers commenced in July 2021 following the receipt of WDNR comments requesting the additional sampling.
3. Sampling not conducted during winter months when ditch was frozen over.

Alyssa Sellwood, P.E.
WDNR
July 15, 2022

In addition to the monitoring activities described above, continuous monitoring was performed at three locations, described below. Continuous monitoring was not performed during the winter months due to freezing conditions impacting the data collection.

- Flow and stage measurements were collected continuously at the existing Ditch B SWTS station.
- Stage measurements were collected at a stilling well installed where Ditch B crosses Industrial Parkway South.
- Stage measurements were collected at a stilling well installed where Ditch B crosses Pierce Road.

Continuous monitoring resumed in May 2022 and will continue through the startup and short-term monitoring periods, with the monitoring being discontinued during freezing conditions at the Site.

The following information is attached to this data package:

- Summary tables of gauged water levels, validated analytical results, and flow and stage measurements
- An updated well construction table (inclusive of final extraction well and piezometer constructions)
- Soil boring logs and well construction logs associated with piezometer and extraction well installations
- Laboratory analytical reports.

The pre-startup monitoring data were evaluated for consistency with the basis of design presented in the GETS Interim Remedial Action Design Report (Arcadis 2021a). The monitoring results supported constructing the GETS as designed and provided a basis for refinement of future operations and monitoring, as follows:

- Due to lower than anticipated PFAS concentrations at sample locations from the southern end of the GETS network (i.e., VAP-BP-13 and PZ-53-40), EX-9 may not be placed into operation during the start-up phase. EX-9 could remain offline but held in reserve for potential future operation if performance monitoring data show that it would be beneficial. Additionally, one additional piezometer is proposed to be installed on Richard Street between EX-7 and EX-9 to further refine the data resolution in this area.
- As prescribed in the LTM Plan, three similarly constructed wells in the west-central portion of the Site (PZ-3, PZ-18D and PZ-22D) were sampled during the baseline sampling event to identify which well has the highest PFAS concentrations. According to the LTM Plan, well PZ-22D was selected as a representative location for groundwater monitoring throughout the LTM program; however, if either PZ-3 or PZ-18D were found to have higher concentrations, it would replace PZ-22D in the program going forward. The results (shown on Table 5 and Figure 7) show that PFAS concentrations were highest at PZ-3; therefore, PZ-3 will replace PZ-22D in the LTM groundwater monitoring program.

Please do not hesitate to call us if you have any questions.

Sincerely,
Arcadis U.S., Inc.



Matthew Coleman
Project Communications Manager

Email: Matthew.Coleman@arcadis.com
Direct Line: (315) 671-9641

Alyssa Sellwood, P.E.
WDNR
July 15, 2022

References:

- Arcadis. 2021a. Groundwater Extraction and Treatment System Interim Remedial Action Design Report, Tyco Fire Technology Center – PFCS, Marinette, Wisconsin. February 26.
- Arcadis. 2021b. Long-Term Monitoring Plan for the Groundwater Extraction and Treatment System. Tyco Fire Technology Center – Marinette, Wisconsin. BRRTS No. 02-38-580694. July 16.
- WDNR. 2021. Conditional Approval of the Groundwater Extraction and Treatment Systems (GETS) Interim Remedial Action Design Report (RADR). BRRTS No. 02-38-580694. May 18.

Enclosures:

Tables

- 1 GETS Design VAP Groundwater PFAS Results
- 2 GETS Design VAP Groundwater VOC Results
- 3 GETS Design VAP Grain Size Results
- 4 GETS Baseline Groundwater Elevation Data
- 5 Surface Water and Streambed Groundwater Levels
- 6 GETS Streambed Groundwater PFAS Results
- 7 GETS Surface Water PFAS Results
- 8 GETS Baseline Groundwater PFAS Results
- 9 GETS Baseline Groundwater Metals and VOCs Results

Figures

- 1 Location Map
- 2 Temporary Groundwater Sampling Location Results – August and September 2021
- 3 Surface Water and Streambed Groundwater Results
- 4 Transducer Hydrographs and Ditch B Flow Rates
- 5 Potentiometric Surface In Shallow Sand – April 5, 2022
- 6 Potentiometric Surface In Deep Sand – April 5, 2022
- 7 GETS Baseline Groundwater Sampling Results

Attachments

- 1 Soil Boring Logs, Well Construction Logs, and Well Development Logs
- 2 Laboratory Analytical Results
- 3 Data Validation Reports

Tables

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	BP-1	BP-2	BP-2	BP-4	VAP-BP-4	VAP-BP-4
				Sample ID	BP-1 (5-6) (091421)	BP-2 (5-6) (091421)	DUP-01 (2) (091421)	BP-4 (5-6) (091421)	VAP-BP-4 (11.5-15) (091421)	VAP-BP-4 (16.5-20) (091421)
				Sample Date	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
				Sample Type	N	N	FD	N	N	N
Unit										
PFBA	--	--	10,000	ng/L	24	53	NA	42	160	1,400 D
PFPeA	--	--	--	ng/L	22	150	NA	120	580 D	7,200 D
PFHxA	--	--	150,000	ng/L	34	120	NA	67	330	3,700 D
PFHpA	--	--	--	ng/L	29	110	NA	31	130	1,700 D
PFOA	70	20	--	ng/L	140	49	NA	80	310	10,000 D
PFNA	--	--	30	ng/L	0.64 J	6.0	NA	4.9	110	2,600 D
PFDA	--	--	300	ng/L	<0.29 U	<0.28 U	NA	2.5 J+	6.7	77
PFUnA	--	--	3,000	ng/L	<1.0 U	<0.99 U	NA	<1.0 UJ	14	31
PFDoA	--	--	500	ng/L	<0.52 U	<0.50 U	NA	NA R	<0.51 U	<0.52 U
PFTriA	--	--	--	ng/L	<1.2 U	<1.2 U	NA	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	--	10,000	ng/L	<0.68 U	<0.66 U	NA	NA R	<0.68 U	<0.69 U
PFHxDA	--	--	--	ng/L	<0.83 U	<0.80 U	NA	NA R	<0.83 U	<0.84 U
PFODA	--	--	400,000	ng/L	<0.88 U	<0.85 U	NA	<0.88 U	<0.88 U	<0.89 U
PFBS	--	--	450,000	ng/L	1.4 J	0.66 J	NA	4.4 J+	1.9	15
PFPeS	--	--	--	ng/L	0.32 J	<0.27 U	NA	0.66 J	0.92 J+	12
PFHxS	--	--	40	ng/L	4.1	3.3	NA	6.5	17	300 D
PFHpS	--	--	--	ng/L	<0.18 U	0.43 J	NA	<0.18 U	0.64 J	8.5
PFOS	70	20	--	ng/L	2.4 JN	28	NA	8.7 J+	61	1,300 D
PFNS	--	--	--	ng/L	<0.35 U	<0.33 U	NA	<0.35 U	<0.35 U	<0.35 U
PFDS	--	--	--	ng/L	<0.30 U	<0.29 U	NA	<0.30 U	<0.30 U	<0.30 U
PFDoS	--	--	--	ng/L	<0.91 U	<0.88 U	NA	NA R	<0.91 UJ-	<0.92 U
4:2 FTS	--	--	--	ng/L	<0.22 U	<0.22 U	NA	2.2	8.0	260
6:2 FTS	--	--	--	ng/L	<2.3 U	<2.3 U	NA	60	1,500 D	19,000 D
8:2 FTS	--	--	--	ng/L	<0.43 U	<0.42 U	NA	2.4	210	2,600 D
10:2 FTS	--	--	--	ng/L	<0.63 U	<0.60 U	NA	<0.63 UJ	<0.63 U	0.90 J
FOSA	--	--	20 ⁽³⁾	ng/L	<0.92 U	<0.88 U	NA	<0.92 U	16	160
NMeFOSA	--	--	--	ng/L	<0.40 U	<0.39 U	NA	<0.40 U	<0.40 U	<0.41 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<0.82 U	<0.79 U	NA	<0.81 U	<0.81 U	<0.83 U
NMeFOSAA	--	--	--	ng/L	<1.1 U	<1.1 U	NA	<1.1 UJ	<1.1 U	<1.1 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<1.2 U	<1.2 U	NA	<1.2 U	2.3 J	15
NMeFOSE	--	--	--	ng/L	<1.3 U	<1.3 U	NA	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<0.80 U	<0.77 U	NA	<0.80 U	<0.79 U	<0.81 U
HFPO-DA	--	--	300	ng/L	<1.4 U	<1.4 U	NA	<1.4 U	<1.4 U	<1.4 U
DONA	--	--	3,000	ng/L	<0.37 U	<0.36 U	NA	<0.37 U	<0.37 U	<0.38 U
9CI-PF3ONS	--	--	--	ng/L	<0.22 U	<0.22 U	NA	<0.22 U	<0.22 U	<0.23 U
11CI-PF3OUdS	--	--	--	ng/L	<0.30 U	<0.29 U	NA	<0.30 U	<0.30 U	<0.30 U

Notes on Page 8.

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	VAP-BP-4	BP-5	BP-6	VAP-BP-6	VAP-BP-6
				Sample ID	VAP-BP-4 (21.5-25) (091421)	BP-5 (5-6) (091321)	BP-6 (5-6) (091321)	DUP-01 (091321)	VAP-BP-6 (11.5-15) (091321)
				Sample Date	9/14/2021	9/13/2021	9/13/2021	9/13/2021	9/13/2021
				Sample Type	N	N	N	FD	N
Unit									
PFBA	--	--	10,000	ng/L	1,300 D	79	41	97	<2.3 U
PFPeA	--	--	--	ng/L	5,100 D	93	42	280	<0.48 U
PFHxA	--	--	150,000	ng/L	4,100 D	34	16	410 D	<0.57 U
PFHpA	--	--	--	ng/L	2,100 D	14	6.1	180	<0.24 U
PFOA	70	20	--	ng/L	20,000 D	7.2	2.3	4,200 D	<0.83 U
PFNA	--	--	30	ng/L	3,600 D	<0.26 U	<0.27 U	240	<0.26 U
PFDA	--	--	300	ng/L	120	<0.30 U	<0.31 U	9.8	<0.30 U
PFUnA	--	--	3,000	ng/L	50	<1.1 U	<1.1 U	1.0 JN	<1.1 U
PFDaA	--	--	500	ng/L	<0.52 U	<0.53 U	<0.54 U	<0.52 U	<0.54 U
PFTriA	--	--	--	ng/L	<1.2 U	<1.3 U	<1.3 U	<1.2 U	<1.3 U
PFTeA	--	--	10,000	ng/L	<0.68 U	<0.71 U	<0.72 U	<0.69 U	<0.71 U
PFHxDA	--	--	--	ng/L	<0.83 U	<0.86 U	<0.88 U	<0.84 U	<0.87 U
PFODA	--	--	400,000	ng/L	<0.88 U	<0.91 U	<0.93 U	<0.88 U	<0.92 U
PFBS	--	--	450,000	ng/L	40 JN	1.3 J	0.69 J	14	<0.20 U
PFPeS	--	--	--	ng/L	18	<0.29 U	<0.30 U	15	<0.29 U
PFHxS	--	--	40	ng/L	610 D	<0.55 U	<0.56 U	210	<0.56 U
PFHpS	--	--	--	ng/L	9.8	<0.18 U	<0.19 U	9.8	<0.19 U
PFOS	70	20	--	ng/L	1,300 D	<0.52 U	<0.53 U	320	<0.53 U
PFNS	--	--	--	ng/L	1.2 JN	<0.36 U	<0.36 U	<0.35 U	<0.36 U
PFDS	--	--	--	ng/L	<0.30 U	<0.31 U	<0.32 U	<0.30 U	<0.31 U
PFDoS	--	--	--	ng/L	<0.91 U	<0.94 U	<0.96 U	<0.91 U	<0.95 U
4:2 FTS	--	--	--	ng/L	NA	<0.23 U	<0.24 U	80	<0.23 U
6:2 FTS	--	--	--	ng/L	25,000 D	<2.4 U	<2.5 U	3,400 D	<2.4 U
8:2 FTS	--	--	--	ng/L	2,800 D	<0.45 U	<0.45 U	450 D	<0.45 U
10:2 FTS	--	--	--	ng/L	0.81 J	<0.65 U	<0.66 U	<0.63 U	<0.66 U
FOSA	--	--	20 ⁽³⁾	ng/L	200	<0.95 U	<0.97 U	33	<0.96 U
NMeFOSA	--	--	--	ng/L	<0.40 U	<0.42 U	<0.42 U	<0.40 U	<0.42 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<0.82 U	<0.84 U	<0.86 U	<0.82 U	<0.85 U
NMeFOSAA	--	--	--	ng/L	<1.1 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	22	<1.3 U	<1.3 U	3.9 J	<1.3 U
NMeFOSE	--	--	--	ng/L	<1.3 U	<1.4 U	<1.4 U	<1.3 U	<1.4 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<0.80 U	<0.82 U	<0.84 U	<0.80 U	<0.83 U
HFPO-DA	--	--	300	ng/L	<1.4 U	<1.5 U	<1.5 U	<1.4 U	<1.5 U
DONA	--	--	3,000	ng/L	<0.38 U	<0.39 U	<0.39 U	<0.38 U	<0.39 U
9CI-PF3ONS	--	--	--	ng/L	<0.23 U	<0.23 U	<0.24 U	<0.23 U	<0.23 U
11CI-PF3OUdS	--	--	--	ng/L	<0.30 U	<0.31 U	<0.32 U	<0.30 U	<0.31 U

Notes on Page 8.

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	VAP-BP-6	VAP-BP-6	VAP-BP-6	VAP-BP-6	VAP-BP-6
				Sample ID	VAP-BP-6 (16.5-20) (091321)	VAP-BP-6 (21.5-25) (091321)	VAP-BP-6 (26.5-30) (091321)	VAP-BP-6 (31.5-35) (091321)	VAP-BP-6 (36.5-40) (091321)
				Sample Date	9/13/2021	9/13/2021	9/13/2021	9/13/2021	9/13/2021
				Sample Type	N	N	N	N	N
Unit									
PFBA	--	--	10,000	ng/L	<2.3 U	<2.3 U	41	99	100
PFPeA	--	--	--	ng/L	<0.47 U	<0.47 U	110	280	310
PFHxA	--	--	150,000	ng/L	<0.55 U	<0.55 U	140	380	410 D
PFHpA	--	--	--	ng/L	<0.24 U	<0.24 U	59	180	170
PFOA	70	20	--	ng/L	<0.81 U	1.0 J	1,100 D	4,000 D	3,600 D
PFNA	--	--	30	ng/L	<0.26 U	<0.26 U	65	240	210
PFDA	--	--	300	ng/L	<0.30 U	<0.30 U	2.3	9.9	15
PFUnA	--	--	3,000	ng/L	<1.1 U	<1.0 U	<1.0 U	1.2 JN	4.5 JN
PFDoA	--	--	500	ng/L	<0.53 U	<0.52 U	<0.52 U	<0.53 U	<0.51 U
PFTriA	--	--	--	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	--	10,000	ng/L	<0.70 U	<0.69 U	<0.69 U	<0.70 U	<0.68 U
PFHxDA	--	--	--	ng/L	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.83 U
PFODA	--	--	400,000	ng/L	<0.90 U	<0.89 U	<0.89 U	<0.90 U	<0.87 U
PFBS	--	--	450,000	ng/L	<0.19 U	<0.19 U	6.8	15	19
PFPeS	--	--	--	ng/L	<0.29 U	<0.29 U	6.0	16	17
PFHxS	--	--	40	ng/L	<0.55 U	<0.54 U	64	220	190
PFHpS	--	--	--	ng/L	<0.18 U	<0.18 U	2.8	10	9.7
PFOS	70	20	--	ng/L	<0.52 U	<0.51 U	79	310	420 D
PFNS	--	--	--	ng/L	<0.35 U	<0.35 U	<0.35 U	<0.35 U	<0.34 U
PFDS	--	--	--	ng/L	<0.31 U	<0.30 U	<0.30 U	<0.31 U	<0.30 U
PFDoS	--	--	--	ng/L	<0.93 U	<0.92 U	<0.92 U	<0.93 U	<0.90 U
4:2 FTS	--	--	--	ng/L	<0.23 U	<0.23 U	23	84	74
6:2 FTS	--	--	--	ng/L	<2.4 U	<2.4 U	1,400 D	3,400 D	3,600 D
8:2 FTS	--	--	--	ng/L	<0.44 U	<0.44 U	94	450 D	640 D
10:2 FTS	--	--	--	ng/L	<0.64 U	<0.64 U	<0.64 U	<0.64 U	0.91 J
FOSA	--	--	20 ⁽³⁾	ng/L	<0.94 U	<0.93 U	11	35	96
NMeFOSA	--	--	--	ng/L	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.40 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.81 U
NMeFOSAA	--	--	--	ng/L	<1.1 U	<1.1 U	<1.1 U	<1.2 U	<1.1 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<1.2 U	<1.2 U	1.2 J	4.1 J	14
NMeFOSE	--	--	--	ng/L	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.79 U
HFPO-DA	--	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U
DONA	--	--	3,000	ng/L	<0.38 U	<0.38 U	<0.38 U	<0.38 U	<0.37 U
9CI-PF3ONS	--	--	--	ng/L	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.22 U
11CI-PF3OUdS	--	--	--	ng/L	<0.31 U	<0.30 U	<0.30 U	<0.31 U	<0.30 U

Notes on Page 8.

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	BP-9	BP-9	BP-10	BP-10	BP-11W	BP-12
				Sample ID	BP-9 (5-6) (091421)	DUP-02 (2) (091421)	BP-10 (7-8) (091421)	DUP-01 (3) (091421)	BP-11W (5-6) (091421)WG	BP-12 (5-6) (091421)
				Sample Date	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
				Sample Type	N	FD	N	FD	N	N
Unit										
PFBA	--	--	10,000	ng/L	4.3 J	4.5 J	19	18	26	24
PFPeA	--	--	--	ng/L	2.2	2.2	12	13	33	32
PFHxA	--	--	150,000	ng/L	4.2	3.9	12	12	19	24
PFHpA	--	--	--	ng/L	2.4	2.6	8.0	7.7	18	15
PFOA	70	20	--	ng/L	4.7	4.8	7.6	8.2	19	16
PFNA	--	--	30	ng/L	<0.26 U	<0.26 U	<0.26 U	<0.25 U	2.1	2.7
PFDA	--	--	300	ng/L	<0.30 U	<0.29 U	<0.29 U	<0.28 U	<0.29 U	<0.31 U
PFUnA	--	--	3,000	ng/L	<1.1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.1 U
PFDaA	--	--	500	ng/L	<0.54 U	<0.52 U	<0.52 U	<0.50 U	<0.51 U	<0.55 U
PFTriA	--	--	--	ng/L	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.3 U
PFTeA	--	--	10,000	ng/L	<0.71 U	<0.69 U	<0.69 U	<0.67 U	<0.68 U	<0.73 U
PFHxDA	--	--	--	ng/L	<0.87 UJ	<0.84 U	<0.85 U	<0.82 U	<0.83 U	<0.89 U
PFODA	--	--	400,000	ng/L	<0.92 U	<0.89 U	<0.89 U	<0.86 U	<0.88 U	<0.94 U
PFBS	--	--	450,000	ng/L	1.3 J	0.74 J	3.3	3.4	3.1 JN	1.8 J+
PFPeS	--	--	--	ng/L	<0.29 U	<0.28 U	0.73 J	0.70 J	<0.28 U	0.42 J+
PFHxS	--	--	40	ng/L	<0.56 U	0.64 J	1.3 J	1.5 J	1.7 J	2.3
PFHpS	--	--	--	ng/L	0.21 J	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.19 U
PFOS	70	20	--	ng/L	3.2 JN	3.5 JN	<0.51 U	<0.50 U	4.6	12
PFNS	--	--	--	ng/L	<0.36 U	<0.35 U	<0.35 U	<0.34 U	<0.35 U	<0.37 U
PFDS	--	--	--	ng/L	<0.31 U	<0.30 U	<0.30 U	<0.29 U	<0.30 U	<0.32 U
PFDoS	--	--	--	ng/L	<0.95 U	<0.92 U	<0.92 U	<0.89 U	<0.91 U	<0.97 U
4:2 FTS	--	--	--	ng/L	<0.23 U	<0.23 U	<0.23 U	<0.22 U	<0.22 U	<0.24 U
6:2 FTS	--	--	--	ng/L	<2.4 U	<2.4 U	<2.4 U	<2.3 U	3.8 J	<2.5 U
8:2 FTS	--	--	--	ng/L	<0.45 U	<0.44 U	<0.44 U	<0.42 U	1.0 J	<0.46 U
10:2 FTS	--	--	--	ng/L	<0.66 U	<0.64 U	<0.64 U	<0.62 U	<0.63 U	<0.67 U
FOSA	--	--	20 ⁽³⁾	ng/L	<0.96 U	<0.93 U	<0.93 U	<0.90 U	<0.92 U	<0.98 U
NMeFOSA	--	--	--	ng/L	<0.42 U	<0.41 U	<0.41 U	<0.39 U	<0.40 U	<0.43 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<0.85 U	<0.82 U	<0.83 U	<0.80 U	<0.81 U	<0.87 U
NMeFOSAA	--	--	--	ng/L	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.2 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.3 U
NMeFOSE	--	--	--	ng/L	<1.4 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.4 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<0.83 U	<0.81 U	<0.81 U	<0.78 U	<0.79 U	<0.85 U
HFPO-DA	--	--	300	ng/L	<1.5 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.5 U
DONA	--	--	3,000	ng/L	<0.39 U	<0.38 U	<0.38 U	<0.37 U	<0.37 U	<0.40 U
9CI-PF3ONS	--	--	--	ng/L	<0.23 U	<0.23 U	<0.23 U	<0.22 U	<0.22 U	<0.24 U
11CI-PF3OUdS	--	--	--	ng/L	<0.31 U	<0.30 U	<0.30 U	<0.29 U	<0.30 U	<0.32 U

Notes on Page 8.

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	BP-13	VAP-BP-13	VAP-BP-13	VAP-BP-13	VAP-BP-13
				Sample ID	BP-13 (5-6) (091421)	DUP-02 (091421)	VAP-BP-13 (16.5-20) (091421)	VAP-BP-13 (26.5-30) (091421)	VAP-BP-13 (31.5-35) (091421)
				Sample Date	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
				Sample Type	N	FD	N	N	N
Unit									
PFBA	--	--	10,000	ng/L	22	3.7 J	4.0 J	4.6 J	<2.2 U
PFPeA	--	--	--	ng/L	21	1.5 J	2.0	8.3	<0.46 U
PFHxA	--	--	150,000	ng/L	18	1.6 J	1.6 J	15	<0.54 U
PFHpA	--	--	--	ng/L	15	1.2 J	1.3 J	4.6	<0.23 U
PFOA	70	20	--	ng/L	22	9.1	10	110	<0.79 U
PFNA	--	--	30	ng/L	0.70 JN	<0.25 U	<0.25 U	<0.27 U	<0.25 U
PFDA	--	--	300	ng/L	<0.29 U	<0.29 U	<0.29 U	<0.31 U	<0.29 U
PFUnA	--	--	3,000	ng/L	<1.0 U	<1.0 U	<1.0 U	<1.1 U	<1.0 U
PFDoA	--	--	500	ng/L	<0.51 U	<0.51 U	<0.52 U	<0.56 U	<0.51 U
PFTriA	--	--	--	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.3 U	<1.2 U
PFTeA	--	--	10,000	ng/L	<0.68 U	<0.67 U	<0.68 U	<0.74 U	<0.68 U
PFHxDA	--	--	--	ng/L	<0.83 U	<0.82 U	<0.83 U	<0.90 U	<0.83 U
PFODA	--	--	400,000	ng/L	<0.88 U	<0.87 U	<0.88 U	<0.95 U	<0.87 U
PFBS	--	--	450,000	ng/L	2.6	0.40 J	0.73 JN	0.54 J	<0.19 U
PFPeS	--	--	--	ng/L	0.87 J	0.30 J	0.38 J	0.39 J	<0.28 U
PFHxS	--	--	40	ng/L	21	2.7	2.8	1.4 J	<0.53 U
PFHpS	--	--	--	ng/L	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U
PFOS	70	20	--	ng/L	4.8 JN	4.8 JN	4.2	3.3 JN	<0.50 U
PFNS	--	--	--	ng/L	<0.35 U	<0.34 U	<0.35 U	<0.37 U	<0.34 U
PFDS	--	--	--	ng/L	<0.30 U	<0.30 U	<0.30 U	<0.32 U	<0.30 U
PFDoS	--	--	--	ng/L	<0.91 U	<0.89 U	<0.91 U	<0.98 U	<0.90 U
4:2 FTS	--	--	--	ng/L	<0.22 U	<0.22 U	<0.23 U	<0.24 U	<0.22 U
6:2 FTS	--	--	--	ng/L	<2.3 U	<2.3 U	<2.3 U	<2.5 U	<2.3 U
8:2 FTS	--	--	--	ng/L	<0.43 U	<0.42 U	<0.43 U	<0.46 U	<0.43 U
10:2 FTS	--	--	--	ng/L	<0.63 U	<0.62 U	<0.63 U	<0.68 U	<0.62 U
FOSA	--	--	20 ⁽³⁾	ng/L	<0.92 U	<0.90 U	<0.92 U	<0.99 U	<0.91 U
NMeFOSA	--	--	--	ng/L	<0.40 U	<0.40 U	<0.40 U	<0.43 U	<0.40 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<0.81 U	<0.80 U	<0.82 U	<0.88 U	<0.81 U
NMeFOSAA	--	--	--	ng/L	<1.1 U	<1.1 U	<1.1 U	<1.2 U	<1.1 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.3 U	<1.2 U
NMeFOSE	--	--	--	ng/L	<1.3 U	<1.3 U	<1.3 U	<1.4 U	<1.3 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<0.79 U	<0.78 U	<0.80 U	<0.86 U	<0.79 U
HFPO-DA	--	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.5 U	<1.4 U
DONA	--	--	3,000	ng/L	<0.37 U	<0.37 U	<0.38 U	<0.40 U	<0.37 U
9CI-PF3ONS	--	--	--	ng/L	<0.22 U	<0.22 U	<0.23 U	<0.24 U	<0.22 U
11CI-PF3OUdS	--	--	--	ng/L	<0.30 U	<0.30 U	<0.30 U	<0.32 U	<0.30 U

Notes on Page 8.

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	VAP-BP-13	VAP-54	VAP-54	VAP-54	SB-PZ-55
				Sample ID	VAP-BP-13 (36.5-40) (091421)	VAP-54 (5-10) (080321)	VAP-54 (15-20) (080321)	VAP-54 (25-30) (080421)	DUP-07 (080721)
				Sample Date	9/14/2021	8/3/2021	8/3/2021	8/4/2021	8/7/2021
				Sample Type	N	N	N	N	FD
Unit									
PFBA	--	--	10,000	ng/L	<2.3 U	17	270	810 D	160
PFPeA	--	--	--	ng/L	<0.47 U	19	1,300 D	3,200 D	67
PFHxA	--	--	150,000	ng/L	<0.56 U	24	720 D	2,300 D	38
PFHpA	--	--	--	ng/L	<0.24 U	34	250	1,600 D	1.8 J
PFOA	70	20	--	ng/L	<0.82 U	28	82	12,000 D	8.6
PFNA	--	--	30	ng/L	<0.26 U	2.7	11	5,200 D	<0.26 U
PFDA	--	--	300	ng/L	0.30 J	<0.28 U	<0.29 U	190 D	<0.30 U
PFUnA	--	--	3,000	ng/L	<1.1 U	<0.98 U	<1.0 U	92 D	<1.1 U
PFDoA	--	--	500	ng/L	<0.53 U	<0.49 U	<0.51 U	<5.1 UD	<0.54 U
PFTriA	--	--	--	ng/L	<1.2 U	<1.2 U	<1.2 U	<12 UD	<1.3 U
PFTeA	--	--	10,000	ng/L	<0.70 U	<0.65 U	<0.68 U	<6.8 U	<0.72 U
PFHxDA	--	--	--	ng/L	<0.85 U	<0.79 U	<0.83 U	<8.3 UD	<0.87 U
PFODA	--	--	400,000	ng/L	<0.90 U	<0.84 U	<0.87 U	<8.8 UD	<0.92 U
PFBS	--	--	450,000	ng/L	<0.19 U	0.56 J	1.8 J	16 JN	3.3
PFPeS	--	--	--	ng/L	<0.29 U	<0.27 U	0.60 J	8.8 DJ	<0.29 U
PFHxS	--	--	40	ng/L	<0.55 U	4.9	5.7	520 D	1.3 J
PFHpS	--	--	--	ng/L	<0.18 U	0.66 J	<0.18 U	16 DJN	<0.19 U
PFOS	70	20	--	ng/L	<0.52 U	21 JN	2.6	1,000 D	<0.53 U
PFNS	--	--	--	ng/L	<0.36 U	<0.33 U	<0.34 U	<3.4 UD	<0.36 U
PFDS	--	--	--	ng/L	<0.31 U	<0.29 U	<0.30 U	<3.0 UD	<0.31 U
PFDoS	--	--	--	ng/L	<0.93 U	<0.87 U	<0.90 U	<9.0 UD	<0.95 U
4:2 FTS	--	--	--	ng/L	<0.23 U	<0.21 U	0.24 J	230 D	<0.24 U
6:2 FTS	--	--	--	ng/L	<2.4 U	<2.2 U	730 D	20,000 D	<2.4 U
8:2 FTS	--	--	--	ng/L	<0.44 U	<0.41 U	<0.43 U	3,300 D	<0.45 U
10:2 FTS	--	--	--	ng/L	<0.64 U	<0.60 U	<0.62 U	<6.2 UD	<0.66 U
FOSA	--	--	20 ⁽³⁾	ng/L	<0.94 U	<0.88 U	<0.91 U	110 D	<0.96 U
NMeFOSA	--	--	--	ng/L	<0.41 U	<0.38 U	<0.40 U	<4.0 UD	<0.42 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<0.84 U	<0.78 U	<0.81 U	<8.1 UD	<0.85 U
NMeFOSAA	--	--	--	ng/L	<1.2 U	<1.1 U	<1.1 U	<11 UD	<1.2 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<1.2 U	<1.2 U	<1.2 U	16 DJ	<1.3 U
NMeFOSE	--	--	--	ng/L	<1.3 U	<1.3 U	<1.3 U	<13 UD	<1.4 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<0.82 U	<0.76 U	<0.79 U	<7.9 UD	<0.83 U
HFPO-DA	--	--	300	ng/L	<1.4 U	<1.3 U	<1.4 U	<14 UD	<1.5 U
DONA	--	--	3,000	ng/L	<0.38 U	<0.36 U	<0.37 U	<3.7 UD	<0.39 U
9CI-PF3ONS	--	--	--	ng/L	<0.23 U	<0.21 U	<0.22 U	<2.2 UD	<0.24 U
11CI-PF3OUdS	--	--	--	ng/L	<0.31 U	<0.29 U	<0.30 U	<3.0 UD	<0.31 U

Notes on Page 8.

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	SB-PZ-55	SB-PZ-55	SB-PZ-55	SB-PZ-55	SB-PZ-55
				Sample ID	SB-PZ-55 (21-26) (080721)	SB-PZ-55 (30-35) (080721)	SB-PZ-55 (40-45) (080721)	SB-PZ-55 (50-55) (080921)	SB-PZ-55 (59-64) (080921)
				Sample Date	8/7/2021	8/7/2021	8/7/2021	8/9/2021	8/9/2021
				Sample Type	N	N	N	N	N
Unit									
PFBA	--	--	10,000	ng/L	22	150 J-	55	14	1,600
PFPeA	--	--	--	ng/L	18	65	25	16 J-	4,400 D
PFHxA	--	--	150,000	ng/L	13	35	13	8.7	6,900 D
PFHpA	--	--	--	ng/L	1.7 J	1.6 J	3.0	5.1 J-	2,800
PFOA	70	20	--	ng/L	33	8.0	6.9	3.1 J-	51,000 D
PFNA	--	--	30	ng/L	16	<0.26 U	<0.25 U	<0.24 U	1,400
PFDA	--	--	300	ng/L	1.7 J	<0.29 U	<0.29 U	<0.28 U	180
PFUnA	--	--	3,000	ng/L	<1.1 U	<1.0 U	<1.0 U	<0.99 U	49
PFDaA	--	--	500	ng/L	<0.54 U	<0.52 U	<0.52 U	<0.50 U	<5.0 U
PFTriA	--	--	--	ng/L	<1.3 U	<1.2 UJ	<1.2 U	<1.2 U	<12 U
PFTeA	--	--	10,000	ng/L	<0.72 U	<0.69 U	<0.69 U	0.67 J	<6.7 U
PFHxDA	--	--	--	ng/L	<0.88 U	<0.84 U	<0.84 U	<0.80 U	<8.1 U
PFODA	--	--	400,000	ng/L	<0.93 U	<0.89 U	<0.89 U	<0.85 U	<8.6 U
PFBS	--	--	450,000	ng/L	2.1	3.3	1.1 J	0.36 J-	290
PFPeS	--	--	--	ng/L	0.41 J	0.28 J	0.56 J	<0.27 U	230
PFHxS	--	--	40	ng/L	3.5	1.5 J	1.7 J	<0.51 U	3,100
PFHpS	--	--	--	ng/L	<0.19 U	<0.18 U	<0.18 U	<0.17 U	110
PFOS	70	20	--	ng/L	4.6	<0.51 U	<0.51 U	<0.49 U	5,100 D
PFNS	--	--	--	ng/L	<0.37 U	<0.35 U	<0.35 U	<0.33 U	<3.4 U
PFDS	--	--	--	ng/L	<0.32 U	<0.30 U	<0.30 U	<0.29 U	<2.9 U
PFDoS	--	--	--	ng/L	<0.96 U	<0.92 U	<0.91 U	<0.87 U	<8.9 U
4:2 FTS	--	--	--	ng/L	0.33 J	<0.23 U	<0.23 U	<0.22 U	710
6:2 FTS	--	--	--	ng/L	30	<2.4 U	<2.4 U	<2.3 U	7,000 D
8:2 FTS	--	--	--	ng/L	44	<0.44 U	0.66 J	<0.41 U	2,900 D
10:2 FTS	--	--	--	ng/L	<0.66 U	<0.63 U	<0.63 U	<0.60 U	<6.1 U
FOSA	--	--	20 ⁽³⁾	ng/L	NA R	<0.93 U	<0.92 U	<0.88 U	1700
NMeFOSA	--	--	--	ng/L	<0.42 U	<0.41 U	<0.41 U	<0.39 U	<3.9 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<0.86 U	<0.82 U	<0.82 U	<0.78 U	<7.9 U
NMeFOSAA	--	--	--	ng/L	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<11 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<1.3 U	<1.2 U	<1.2 U	<1.2 U	450
NMeFOSE	--	--	--	ng/L	<1.4 U	<1.3 U	<1.3 U	<1.3 U	<13 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<0.84 U	<0.80 U	<0.80 U	<0.77 U	<7.8 U
HFPO-DA	--	--	300	ng/L	<1.5 U	<1.4 U	<1.4 U	<1.4 U	<14 U
DONA	--	--	3,000	ng/L	<0.39 U	<0.38 U	<0.38 U	<0.36 U	<3.7 U
9CI-PF3ONS	--	--	--	ng/L	<0.24 U	<0.23 U	<0.23 U	<0.22 U	<2.2 U
11CI-PF3OUdS	--	--	--	ng/L	<0.32 U	<0.30 U	<0.30 U	<0.29 U	<2.9 U

Notes on Page 8.

Table 1
GETS Design VAP Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin

Notes:

< = compound not detected at method detection limit.

(1) USEPA Combined Recommended Interim PRG for groundwater for PFOS and PFOA of 70 ng/L.

(2) In June 2019, WDHS recommended individual groundwater standards of 20 ng/L for PFOA and PFOS. The WDNR proposed those standards through the state rulemaking process. In February 2022, the Wisconsin Natural Resources Board did not approve the proposed rulemaking. In February 2022, the Wisconsin Natural Resources Board approved a drinking water standard of 70 ng/L for PFOA and PFOS, individually and combined, for public water systems. This drinking water rule has been signed by the Governor and presented to the Wisconsin legislature for review. If the rule becomes effective, those standards will apply to public water sources, not private drinking water wells.

(3) In November 2020, WDHS recommended a combined groundwater standard of 20 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA. WDHS also recommended individual standards for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFBS, PFHxS, PFNA, PFDA, PFDoA, PFHxA, PFTeA, PFUnA, PFBA, PFODA, DONA, and HFPO-DA. In March 2021, the Wisconsin Natural Resources Board approved a Statement of Scope to initiate a rulemaking for this recommendation. The WDNR has not yet proposed rules to initiate the rulemaking process to implement this recommendation; the agency's authority to do so under the Statement of Scope will expire in September 2023.

Acronyms and Abbreviations:

FD = field duplicate
 GETS = groundwater extraction and treatment system
 N = normal sample
 ng/L = nanograms per liter
 PFAS = per- or polyfluoroalkyl substances
 PRG = Preliminary Remediation Goals
 USEPA = United States Environmental Protection Agency
 VAP = vertical aquifer profile
 WDHS = Wisconsin Department of Health Services
 WDNR = Wisconsin Department of Natural Resources

Laboratory Qualifiers:

D = The compound was quantitated using a secondary dilution.

DJ = Compound quantitated using a secondary dilution. Indicates an estimated value.

DJN = The compound was quantitated using a secondary dilution. The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

NA R = Not reportable. Rejected.

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UD = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. The compound was quantitated using a secondary dilution.

UJ = The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.

UJ- = The analyte was analyzed for, but was not detected. The result is an estimated quantity, but the result may be biased low.

Chemical Abbreviations:

PFOA = Perfluorooctanoic acid (C8)
 PFOS = Perfluorooctanesulfonic acid (C8)
 PFBS = Perfluorobutanesulfonic acid (C4)
 PFHpA = Perfluoroheptanoic acid (C7)
 PFHxS = Perfluorohexanesulfonic acid (C6)
 PFNA = Perfluorononanoic acid (C9)
 PFDA = Perfluorodecanoic acid (C10)
 PFDoA = Perfluorododecanoic acid (C12)
 PFHxA = Perfluorohexanoic acid (C6)
 PFTeA = Perfluorotetradecanoic acid (C14)
 PFTriA = Perfluorotridecanoic acid (C13)
 PFUnA = Perfluoroundecanoic acid (C11)
 NEtFOSAA = N-ethylperfluorooctanesulfonamidoacetic acid (C12)
 NMeFOSAA = N-methylperfluorooctanesulfonamidoacetic acid (C11)
 PFBA = Perfluorobutanoic acid (C4)
 PFPeA = Perfluoropentanoic acid (C5)
 PFHxDA = Perfluoro-n-hexadecanoic acid (C16)
 PFODA = Perfluoro-n-octadecanoic acid (C18)

PFPeS = Perfluoropentanesulfonic acid (C5)
 PFHpS = Perfluoroheptanesulfonic acid (C7)
 PFNS = Perfluorononanesulfonic acid (C9)
 PFDS = Perfluorodecanesulfonic acid (C10)
 PFDoS = Perfluorododecanesulfonic acid (C12)
 FOSA = Perfluorooctanesulfonamide (C8)
 NEtFOSA = N-ethylperfluorooctanesulfonamide (C10)
 NMeFOSA = N-methylperfluorooctanesulfonamide (C9)
 NMeFOSE = N-methylperfluorooctanesulfonamidoethanol (C11)
 NEtFOSE = N-ethylperfluorooctanesulfonamidoethanol (C12)
 4:2 FTS = 4:2 fluorotelomer sulfonate (C6)
 6:2 FTS = 6:2 fluorotelomer sulfonate (C8)
 8:2 FTS = 8:2 fluorotelomer sulfonate (C10)
 10:2 FTS = 10:2 fluorotelomer sulfonate (C12)
 DONA = 4,8-Dioxa-3H-perfluorononanoic acid (C7)
 HFPO-DA = Hexafluoropropylene oxide dimer acid (C6)
 9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (C8)
 11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (C10)

Table 2
GETS Design VAP Groundwater VOC Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



	Location	BP-1	BP-2	BP-2
	Sample ID	BP-1 (5-6) (091421)	BP-2 (5-6) (091421)	DUP-01 (2) (091421)
	Sample Date	9/14/2021	9/14/2021	9/14/2021
	Sample Type	N	N	FD
Chemical Name	Unit			
1,1,1,2-Tetrachloroethane	µg/L	<0.46 U	<0.46 U	<0.46 U
1,1,1-Trichloroethane	µg/L	<0.38 U	<0.38 U	<0.38 U
1,1,2,2-Tetrachloroethane	µg/L	<0.40 U	<0.40 U	<0.40 U
1,1,2-Trichloroethane	µg/L	<0.35 U	<0.35 U	<0.35 U
1,1-Dichloroethane	µg/L	<0.41 U	<0.41 U	<0.41 U
1,1-Dichloroethene	µg/L	<0.39 U	<0.39 U	<0.39 U
1,1-Dichloropropene	µg/L	<0.30 U	<0.30 U	<0.30 U
1,2,3-Trichlorobenzene	µg/L	<0.46 U	<0.46 U	<0.46 U
1,2,3-Trichloropropane	µg/L	<0.41 U	<0.41 U	<0.41 U
1,2,4-Trichlorobenzene	µg/L	<0.34 U	<0.34 U	<0.34 U
1,2,4-Trimethylbenzene	µg/L	<0.36 U	<0.36 U	<0.36 U
1,2-Dibromo-3-chloropropane	µg/L	<2.0 UJ-	<2.0 UJ-	<2.0 UJ-
1,2-Dibromoethane	µg/L	<0.39 U	<0.39 U	<0.39 U
1,2-Dichlorobenzene	µg/L	<0.33 U	<0.33 U	<0.33 U
1,2-Dichloroethane	µg/L	<0.39 U	<0.39 U	<0.39 U
1,2-Dichloropropane	µg/L	<0.43 U	<0.43 U	<0.43 U
1,3,5-Trimethylbenzene	µg/L	<0.25 U	<0.25 U	<0.25 U
1,3-Dichlorobenzene	µg/L	<0.40 U	<0.40 U	<0.40 U
1,3-Dichloropropane	µg/L	<0.36 U	<0.36 U	<0.36 U
1,4-Dichlorobenzene	µg/L	<0.36 U	<0.36 U	<0.36 U
2,2-Dichloropropane	µg/L	<0.44 U	<0.44 U	<0.44 U
2-Chlorotoluene	µg/L	<0.31 U	<0.31 U	<0.31 U
4-Chlorotoluene	µg/L	<0.35 U	<0.35 U	<0.35 U
Benzene	µg/L	<0.15 U	<0.15 U	<0.15 U
Bromobenzene	µg/L	<0.36 U	<0.36 U	<0.36 U
Bromochloromethane	µg/L	<0.43 U	<0.43 U	<0.43 U
Bromodichloromethane	µg/L	<0.37 U	<0.37 U	<0.37 U
Bromoform	µg/L	<0.48 U	<0.48 U	<0.48 U
Bromomethane	µg/L	<0.80 U	<0.80 U	<0.80 U
Carbon Tetrachloride	µg/L	<0.38 U	<0.38 U	<0.38 U
Trichlorofluoromethane	µg/L	<0.43 U	<0.43 U	<0.43 U
Dichlorodifluoromethane	µg/L	<0.67 U	<0.67 U	<0.67 U
Chlorobenzene	µg/L	<0.39 U	<0.39 U	<0.39 U
Chlorodibromomethane	µg/L	<0.49 U	<0.49 U	<0.49 U
Chloroethane	µg/L	<0.51 U	<0.51 U	<0.51 U
Chloroform	µg/L	<0.37 U	<0.37 U	<0.37 U
Chloromethane	µg/L	<0.32 U	<0.32 U	<0.32 U
cis-1,2-Dichloroethene	µg/L	<0.41 U	<0.41 U	<0.41 U
cis-1,3-Dichloropropene	µg/L	<0.42 U	<0.42 U	<0.42 U
Cymene (p-Isopropyltoluene)	µg/L	<0.36 U	<0.36 U	<0.36 U
Dibromomethane	µg/L	<0.27 U	<0.27 U	<0.27 U
Dichloromethane	µg/L	<1.6 U	<1.6 U	<1.6 U
Di-isopropyl ether	µg/L	<0.28 U	<0.28 U	<0.28 U
Ethylbenzene	µg/L	<0.18 U	<0.18 U	<0.18 U
Hexachloro-1,3-butadiene	µg/L	<0.45 U	<0.45 U	<0.45 U
Isopropylbenzene	µg/L	<0.39 U	<0.39 U	<0.39 U
Methyl-tert-butylether	µg/L	<0.39 U	<0.39 U	<0.39 U
Naphthalene	µg/L	<0.34 U	<0.34 U	<0.34 U
n-Butylbenzene	µg/L	<0.39 U	<0.39 U	<0.39 U
n-Propylbenzene	µg/L	<0.41 U	<0.41 U	<0.41 U
sec-Butylbenzene	µg/L	<0.40 U	<0.40 U	<0.40 U
Styrene (Monomer)	µg/L	<0.39 U	<0.39 U	<0.39 U
tert-Butylbenzene	µg/L	<0.40 U	<0.40 U	<0.40 U

Table 2
GETS Design VAP Groundwater VOC Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



	Location	BP-1	BP-2	BP-2
	Sample ID	BP-1 (5-6) (091421)	BP-2 (5-6) (091421)	DUP-01 (2) (091421)
	Sample Date	9/14/2021	9/14/2021	9/14/2021
	Sample Type	N	N	FD
Chemical Name	Unit			
Tetrachloroethene	µg/L	<0.37 U	<0.37 U	<0.37 U
Toluene	µg/L	<0.15 U	<0.15 U	<0.15 U
Total Xylenes	µg/L	<0.22 U	<0.22 U	<0.22 U
trans-1,2-Dichloroethene	µg/L	<0.35 U	<0.35 U	<0.35 U
trans-1,3-Dichloropropene	µg/L	<0.36 UJ-	<0.36 U	<0.36 U
Trichloroethene	µg/L	<0.16 U	<0.16 U	<0.16 U
Vinyl chloride	µg/L	<0.20 U	<0.20 U	<0.20 U

Acronyms and Abbreviations:

FD = field duplicate
 GETS = groundwater extraction and treatment system
 µg/L = micrograms per liter
 N = normal sample
 VAP = vertical aquifer profile
 VOC = volatile organic compound

Qualifier Type	Lab Qualifier	Definition
Inorganic	U	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Inorganic	UJ-	The analyte was analyzed for, but was not detected. The result is an estimated quantity, but the result may be biased low.

Table 3
GETS Design VAP Grain Size Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Location	Depth (feet)	Sample Date	% Gravel	% Sand			% Silt	% Clay	Soil Type
				% Coarse Sand	% Medium Sand	% Fine Sand			
VAP-26/ MW-101B	72-75	6/12/2018	0	0	0.2	57.1	38.1	4.7	Silty Sand
	78	6/12/2018	14.2	6.2	7	21.5	30.6	20.5	Silty Sand
	84	6/12/2018	21.5	5.6	11.1	35.7	17.2	8.9	Silty Sand
VAP-27	79	6/22/2018	0	0	0.3	41.5	51.9	6.3	Silty Sand
	83	6/22/2018	0	0	0.3	2	42.7	55	Clay
VAP-28	44	8/15/2018	0	0	2.4	5.5	75.6	16.5	Silt
	68	8/15/2018	1.1	0.1	2.9	3.9	67.5	24.5	Silt
	88	8/16/2018	1.8	2.3	62.4	28.3	2.8	2.4	Medium Sand
VAP-29	95	8/16/2018	3.9	7.7	12.7	30.9	26.7	18.1	Silty Sand
	27	6/26/2018	0	0	0.1	77.4	19.3	3.2	Silty Sand
	53	6/27/2018	9.2	5	6.2	21.6	43.9	14.1	Silty Sand
VAP-30/ MW-100B	74	6/27/2018	0	0.5	9.6	44.6	27.8	17.5	Silty Sand
	58-60	8/7/2018	0	0	2.3	95.8	0.5	1.4	Fine Sand
	69	8/7/2018	0	0	2.3	4.3	66.3	27.1	Silt
	74	8/8/2018	8.8	4.5	9.5	37.4	24	15.8	Silty Sand
MW-102B	80	8/8/2018	17.9	8.2	13.5	37.4	14.3	8.7	Silty Sand
	34	6/5/2018	22	5.8	7.2	26.8	25.1	13.1	Silty Sand
	43	6/5/2018	2.1	3.8	4.7	17.2	32.4	39.8	Silty Sand
	50	6/5/2018	0	0	0.6	11.6	39.4	48.4	Silty Sand
PZ-45-31	57	6/5/2018	14.2	7.6	9.3	24.8	28.2	15.9	Silty Sand
	11	11/19/2020	0	0	0.3	90.5	7.6	1.6	Fine Sand
	17	11/19/2020	0	0	1.9	92.6	3.4	2.1	Fine Sand
	19	11/19/2020	0	0	8	87	3.3	1.6	Fine Sand
	23	11/19/2020	0	1.4	7.2	87.1	2.5	1.8	Fine Sand
SB-PZ-51	28	11/19/2020	0	0	2.9	93	2.1	2	Fine Sand
	31	11/19/2020	0	1.4	23.3	70.5	3.3	1.5	Medium to Fine Sand
	15	8/19/2021	0	0	0.8	58.4	30.8	10	Silty Sand
	20	8/19/2021	0	0	0.2	86.2	10.2	3.4	Silty Sand
	28	8/19/2021	0	0	3.4	88.3	5	3.3	Fine Sand
	35	8/19/2021	0	0	11.4	80.9	4.8	2.8	Fine Sand
	37	8/19/2021	0	0	7.6	84.1	4.3	4.1	Fine Sand
	39	8/19/2021	0	0	0.4	17.2	72.8	9.6	Silt
SB-PZ-52	43	8/19/2021	0	0	0.1	66.9	28.9	4.1	Silty Sand
	14	8/17/2021	0	0	1.6	56.8	38.2	3.4	Silty Sand
	17	8/17/2021	0	0	0.4	88.3	9.6	1.7	Silty Sand
	24	8/17/2021	0	0	0.9	95.7	1.1	2.3	Fine Sand
	27	8/17/2021	0	0	1.5	95.8	0.8	1.9	Fine Sand
	40	8/17/2021	0	0	0.9	86.6	9.4	3.1	Fine Sand
	42	8/17/2021	0	0	0.2	5.4	77.9	16.5	Silt
	44	8/17/2021	0	0	1.1	58.7	36.1	4.1	Silty Sand
SB-PZ-53	50	8/17/2021	0	0	0.9	88.3	6.5	4.3	Fine Sand
	15	8/18/2021	0	0	0.8	77.9	17.7	3.6	Silty Sand
	23	8/18/2021	0	0	0.2	72.1	24.3	3.4	Silty Sand
	28	8/18/2021	0	0	0.7	96	0.3	3	Fine Sand
	33	8/18/2021	0	1.8	3.9	89.5	1.4	3.4	Fine Sand
	39	8/18/2021	6.4	5.9	19.7	65.4	-0.7	3.3	Fine Sand
	40	8/18/2021	0	2	4.5	34.5	55.8	3.2	Silt
SB-PZ-53	42	8/18/2021	0	0	0.7	31	64.6	3.7	Silt
	46	8/18/2021	0	0	0.2	10.7	78.8	10.3	Silt

Notes on Page 2.

Table 3
GETS Design VAP Grain Size Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Location	Depth (feet)	Sample Date	% Gravel	% Sand			% Silt	% Clay	Soil Type
				% Coarse Sand	% Medium Sand	% Fine Sand			
SB-PZ-55	25	8/7/2021	0	0	1	95.7	2.1	1.2	Fine Sand
	40	8/7/2021	0	0	0.5	96.4	1	2.1	Fine Sand
	45	8/7/2021	0	0	1.2	40.3	53.9	4.6	Silt
	55	8/9/2021	0	0	1.9	95	1	2.1	Fine Sand
	59	8/9/2021	0	1.3	8.5	87.5	-0.01	2.7	Fine Sand
	63	8/9/2021	6.5	1.8	9.8	73.7	6.8	1.4	Fine Sand
VAP-54	15	8/3/2021	0	0	1.1	88.9	7.7	2.3	Fine Sand
	20	8/3/2021	0	0.2	3.2	93	1.9	1.7	Fine Sand
	25	8/3/2021	0	0.3	4.8	89	4.8	1.1	Fine Sand
	27	8/3/2021	0	0	4.2	93.3	0.9	1.6	Fine Sand
	29	8/3/2021	0	0	2.2	94.6	1.6	1.6	Fine Sand
	31-32	8/4/2021	29.5	15.3	27.7	23	3.3	1.1	Silty gravel

Acronyms and Abbreviations:

GETS = groundwater extraction and treatment system
VAP = vertical aquifer profile

Table 4
GETS Baseline Groundwater Elevation Data
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Well ID	Type	Year Installed	Zone Screened	Northing	Easting	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Top of Casing Elevation (feet amsl)	Surface Finish	7/12/2021			4/5/2022		
										Depth to Water	Total Depth	Groundwater Elevation	Depth to Water	Total Depth	Groundwater Elevation
Locations on Tyco FTC															
PZ-1D	MW	2010	BR	463765.45	2579848.55	63.5	68.5	606.23	Stickup	11.09	71.05	595.14	10.62	70.63	595.61
PZ-3	MW	2010	OB	462779.96	2579903.6	38	43	609.20	Stickup	5.97	44.61	603.23	8.81	44.85	600.39
PZ-4D	MW	2010	BR	462514.61	2578515.193	68.5	73.5	607.86	Stickup	--	--	--	3.61	75.85	604.25
PZ-9	WL	NA	OB	463351.67	2578076.42	38	43	611.16	Stickup	6.68	45.03	604.48	5.6	45.31	605.56
PZ-14S	WL	NA	OB	462736.66	2577956.87	4	19	610.77	Stickup	5.12	21.53	605.65	4.16	21.76	606.61
PZ-14D	WL	NA	OB	462739.56	2577964.75	25	35	611.15	Stickup	5.72	36.87	605.43	4.91	36.91	606.24
PZ-15S	MW	NA	OB	463910.973	2579668.704	4	19	608.15	Stickup	9.05	22.05	599.10	8.99	22.21	599.16
PZ-15D	MW	NA	OB	463914.248	2579671.347	22	32	608.17	Stickup	9.28	33.70	598.89	9.22	33.84	598.95
PZ-16S	MW	NA	OB	463910.117	2579069.564	4	19	609.30	Stickup	7.65	21.42	601.65	7.78	21.7	601.52
PZ-16D	MW	NA	OB	463913.751	2579072.133	28	38	608.98	Stickup	7.79	39.16	601.19	7.61	39.03	601.37
PZ-17S	WL	NA	OB	463877.277	2579286.325	4	19	609.51	Stickup	8.65	19.54	600.86	8.71	19.78	600.80
PZ-17D	WL	NA	OB	463881.165	2579293.658	23	33	609.51	Stickup	8.60	33.29	600.91	8.72	34.75	600.79
PZ-18D	MW	NA	OB	462752.51	2579763.36	37	47	609.61	Stickup	8.85	48.30	600.76	8.63	48.53	600.98
PZ-22S	MW	NA	OB	462770.343	2579826.404	10	20	609.70	Stickup	8.79	23.90	600.91	8.65	24.23	601.05
PZ-22D	MW	NA	OB	462767.216	2579825.141	31	41	609.58	Stickup	8.68	43.10	600.90	8.48	43.06	601.10
PZ-45-31	WL	2020	OB	463858.365	2579412.748	20.8	30.8	607.90	Stickup	7.93	32.74	599.97	7.86	32.95	600.04
PZ-47-40	MW	2021	OB	463488.074	2578741.018	35	40	611.04	Stickup	--	--	--	7.69	43.01	603.35
MW-EX-2	WL	2021	OB	463835.844	2579741.381	19.5	29.5	606.76	Stickup	NI	NI	NI	7.92	32.23	598.84
Locations on Tyco (Former Barley)															
MW-EX-3	WL	2021	OB	464475.534	2580784.101	22	27	595.16	Stickup	NI	NI	NI	2.98	25.19	592.18
MW-EX-4	WL	2021	OB	464231.114	2581108.813	22	27	595.51	Stickup	NI	NI	NI	3.87	32.85	591.64
MW-EX-5	WL	2021	OB	463912.681	2581502.253	45	50	594.6	Stickup	NI	NI	NI	3.61	52.66	590.99
Location on School Property															
PZ-23	MW	2017	OB	464564.748	2580218.11	35	40	597.60	Flush	2.83	40.20	594.77	2.6	39.6	595.00
Location in City of Marinette Rights-of-Way															
PZ-24-17	MW	2019	OB	461565.486	2580738.831	7	17	604.84	Flush	5.56	16.68	599.28	5.22	16.33	599.62
PZ-24-47	MW	2019	OB	461570.226	2580738.859	37	47	604.73	Flush	5.60	47.35	599.13	5.12	46.91	599.61
PZ-25-17	MW	2019	OB	465263.641	2579969.294	7	17	598.30	Flush	6.13	16.73	592.17	5.49	16.73	592.81
PZ-26-11	WL	2019	OB	466609.378	2579203.396	6	11	597.77	Flush	5.10	10.99	592.67	4.04	11.01	593.73
PZ-26-49	WL	2020	BR	466616.848	2579219.121	39	49	596.29	Flush	1.64	49.35	594.65	2.05	48.52	594.24
PZ-29-17	MW	2019	OB	465386.375	2581734.145	7	17	593.62	Flush	4.48	17.09	589.14	2.36	17.08	591.26
PZ-29-43	MW	2019	OB	465386.278	2581729.487	38	43	593.52	Flush	4.23	43.41	589.29	3.49	42.52	590.03
PZ-29-68	MW	2020	BR	465386.378	2581721.414	58	68	593.46	Flush	4.24	68.98	589.22	3.38	67.63	590.08
PZ-30-12	MW	2019	OB	464126.008	2582520.183	7	12	594.32	Flush	4.11	12.12	590.21	3.19	12.12	591.13
PZ-30-45	MW	2019	OB	464123.407	2582525.016	35	45	594.22	Flush	4.93	44.66	589.29	4.26	43.75	589.96
PZ-30-59	MW	2019	OB	464121.177	2582529.077	54	59	594.15	Flush	5.15	59.99	589.00	4.28	58.71	589.87

Notes on Page 2.

Table 4
GETS Baseline Groundwater Elevation Data
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Well ID	Type	Year Installed	Zone Screened	Northing	Easting	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Top of Casing Elevation (feet amsl)	Surface Finish	7/12/2021			4/5/2022		
										Depth to Water	Total Depth	Groundwater Elevation	Depth to Water	Total Depth	Groundwater Elevation
PZ-31-17	MW	2019	OB	462494.154	2582369.025	7	17	595.49	Flush	3.94	17.21	591.55	2.79	17.12	592.70
PZ-31-40	MW	2019	OB	462490.811	2582364.016	35	40	595.38	Flush	4.19	41.25	591.19	3.11	40.45	592.27
PZ-31-53	MW	2019	OB	462491.429	2582374.602	48	53	595.24	Flush	4.31	53.33	590.93	2.95	52.13	592.29
PZ-33-12	WL	2019	OB	460123.938	2582902.908	7	12	594.33	Flush	2.02	10.75	592.31	0.5	10.71	593.83
PZ-33-33	WL	2019	OB	460123.727	2582897.363	28	33	594.33	Flush	1.97	33.58	592.36	0.6	32.94	593.73
PZ-33-67	WL	2019	OB	460123.109	2582892.678	57	67	594.42	Flush	2.23	67.55	592.19	0.78	66.38	593.64
PZ-51-38	WL	2021	OB	463344.357	2582027.174	33	38	594.41	Flush	NI	NI	NI	3.14	37.92	591.27
PZ-52-41	WL	2021	OB	462776.477	2582413.718	36	41	594.73	Flush	NI	NI	NI	3.51	41.29	591.22
PZ-53-40	WL	2021	OB	461921.215	2582490.505	35	40	595.67	Flush	NI	NI	NI	2.7	39.53	592.97
PZ-54-47	MW	2021	OB	462712.3	2581376.3	42	47	598.38	Flush	NI	NI	NI	2.33	47.71	596.05
PZ-55-64	WL	2021	OB	462662.519	2580658.807	59	64	616.26	Flush	NI	NI	NI	18.24	63.96	598.02
PZ-56-42	MW	2021	OB	463289.605	2580664.186	37.2	42.2	605.43	Flush	NI	NI	NI	8.98	42.8	596.45
PZ-57-38	MW	2021	OB	462908.71	2583829.915	33	38	594.04	Flush	NI	NI	NI	3.68	38.85	590.36
Location on Northland Lutheran Property															
PZ-32-18	MW	2019	OB	461901.091	2583990.782	8	18	591.19	Flush	2.39	18.33	588.80	1.72	18.11	589.47
PZ-32-72	MW	2019	OB	461908.303	2583990.817	67	72	591.23	Flush	2.57	73.80	588.66	1.81	71.22	589.42

Acronyms and Abbreviations:

- amsl = above mean sea level
- bgs = below ground surface
- BR = bedrock
- EX = extraction well
- FTC = Fire Technology Center
- GETS = groundwater extraction and treatment system
- MW = monitoring well (sampling and gauging)
- NA = information not available
- NI = monitoring well was not installed during the gauging event
- OB = overburden
- PZ = Piezometer
- WL = water level (depth to bottom and depth to water) only

Table 5
Surface Water and Streambed Groundwater Levels
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin

Piezometer ID	5/4/2021							7/12/2021						
	Total Depth (ft btoc)	Depth to Streambed (ft btoc)	Depth Below Streambed (ft btoc)	Depth to Groundwater (ft btoc)	Depth to Surface Water (ft btoc)	Level Difference-Surface Water to Groundwater (ft)	Water Depth	Total Depth (ft btoc)	Depth to Streambed (ft btoc)	Depth Below Streambed (ft btoc)	Depth to Groundwater (ft btoc)	Depth to Surface Water (ft btoc)	Level Difference-Surface Water to Groundwater (ft)	Water Depth
U10	5.00	2.69	2.31	1.01	2.07	1.06	0.62	5.00	2.69	2.31	0.9	2.11	1.21	0.58
U03	8.00	5.27	2.73	4.3	4.64	0.34	0.63	8.00	5.27	2.73	4.05	4.7	0.65	0.57
M09	9.00	6.15	2.85	6.09	5.79	-0.3	0.36	9.00	6.15	2.85	4.72	5.57	0.85	0.58
M07	9.00	4.31	4.69	3.74	4.25	0.51	0.06	9.00	4.31	4.69	3.69	4.01	0.32	0.30
M04	8.00	4.18	3.82	3.45	3.58	0.13	0.60	8.00	4.18	3.82	3.34	3.49	0.15	0.69
M01	8.00	5.08	2.92	4.15	4.66	0.51	0.42	8.00	5.08	2.92	4.39	4.6	0.21	0.48
L09	7.00	4.04	2.96	3.4	3.73	0.33	0.31	7.00	4.04	2.96	3.28	3.78	0.5	0.26

Acronyms and Abbreviations:

ft = feet

ft btoc = feet below top of casing

GETS = groundwater extraction and treatment system

Table 5
Surface Water and Streambed Groundwater Levels
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin

Piezometer ID	9/8/2021							11/16/2021						
	Total Depth (ft btoc)	Depth to Streambed (ft btoc)	Depth Below Streambed (ft btoc)	Depth to Groundwater (ft btoc)	Depth to Surface Water (ft btoc)	Level Difference-Surface Water to Groundwater (ft)	Water Depth	Total Depth (ft btoc)	Depth to Streambed (ft btoc)	Depth Below Streambed (ft btoc)	Depth to Groundwater (ft btoc)	Depth to Surface Water (ft btoc)	Level Difference-Surface Water to Groundwater (ft)	Water Depth
U10	8.24	4.98	3.26	4.07	4.65	0.58	0.33	5.11	2.71	2.40	1.58	2.26	0.68	0.45
U03	7.79	5.19	2.60	4.04	4.87	0.83	0.32	7.75	5	2.75	3.45	4.88	1.43	0.12
M09	8.97	5.91	3.06	4.49	5.34	0.85	0.57	8.90	6.6	2.30	5.01	5.64	0.63	0.96
M07	8.81	4.31	4.50	3.39	3.98	0.59	0.33	8.90	4.39	4.51	3.9	4.26	0.36	0.13
M04	8.15	4.22	3.93	5	3.48	-1.52	0.74	7.97	3.91	4.06	2.7	3.66	0.96	0.25
M01	8.15	5.14	3.01	3.99	4.72	0.73	0.42	8.10	4.86	3.24	4.42	3.66	-0.76	1.20
L09	7.11	4.07	3.04	3.04	3.9	0.86	0.17	7.12	4.1	3.02	3.82	3.9	0.08	0.20

Acronyms and Abbreviations:

ft = feet

ft btoc = feet below top of casing

GETS = groundwater extraction and treatment system

Table 6
 GETS Streambed Groundwater PFAS Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	TPZ-L09	TPZ-L09	TPZ-M01	TPZ-M01	TPZ-M01	TPZ-M01	TPZ-M01	TPZ-M04	TPZ-M04	TPZ-M04	TPZ-M04
				Sample ID	GW-L09 (07142021)	GW-L09 (11162021)	GW-M01 (07142021)	DUP-01-07142021	GW-M01-09082021	GW-M01 (11162021)	DUP-01-11162021	GW-M04 (07142021)	GW-M04-09082021	DUP-02-09082021	GW-M04 (11162021)
				Sample Date	7/14/2021	11/16/2021	7/14/2021	7/14/2021	9/8/2021	11/16/2021	11/16/2021	7/14/2021	9/8/2021	9/8/2021	11/16/2021
				Sample Type	N	N	N	FD	N	N	FD	N	N	FD	N
Unit															
PFBA	--	--	10,000	ng/L	3.9 J	7	14	14	19	15	15	80	34 J	15 J	6
PFPeA	--	--	--	ng/L	3.5	6.1	22	22	22	21	20	220	85 J	28 J	7
PFHxA	--	--	150,000	ng/L	3.2	5	14	13	17	17	17	310	110 J	37 J	9.4
PFHpA	--	--	--	ng/L	1.5 J	3	10	10	13	11	12	130	58 J	20 J	<1.9 U
PFOA	70	20	--	ng/L	11	7.4	12	13	16	14	13	3,200 D	1,300 DJ	440 DJ	49
PFNA	--	--	30	ng/L	<1.8 U	<1.9 U	2.5	2.4	2.1	0.86 J	<2.1 U	40	24 J	15 J	2.9
PFDA	--	--	300	ng/L	0.32 J	<1.9 U	0.55 J	0.33 J	<2.0 U	<1.7 U	<2.1 U	7	3.6	2.4	<1.9 U
PFUnA	--	--	3,000	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFDoA	--	--	500	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFTriA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFTeA	--	--	10,000	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFHxDA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFODA	--	--	400,000	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFBS	--	--	450,000	ng/L	0.91 J	1.0 J	1.0 J	0.99 J	1.7 J	1.8	1.8 J	11	4.1	1.4 J	<1.9 U
PFPeS	--	--	--	ng/L	<1.8 U	<1.9 U	0.36 J	<2.0 U	0.32 J	<1.7 U	<2.1 U	11	4.6	1.6 J	<1.9 U
PFHxS	--	--	40	ng/L	2.3	1.5 J	1.4 J	2.2	2.5	2.1	2.1	96	38 J	15 J	2.8
PFHpS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	5.2	3.2	1.7 J	<1.9 U
PFOS	70	20	--	ng/L	3.6	<1.9 U	<1.8 U	6.5 JN	11	17	16	240	150 J	92 J	14
PFNS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFDS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
PFDoS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 UJ-	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
4:2 FTS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	64 J-	22 J	5.2 J	<1.9 U
6:2 FTS	--	--	--	ng/L	<4.4 U	<4.8 U	23 J-	14	4.6 J	<4.3 U	<5.2 U	1,600 D	650 DJ	210 J	21
8:2 FTS	--	--	--	ng/L	0.63 J-	<1.9 U	0.77 J-	<2.0 U	<2.0 U	<1.7 U	<2.1 U	200 J-	110 J	77 J	13
10:2 FTS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
FOSA	--	--	20 ⁽³⁾	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	33	27	24	8.2
NMeFOSA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
NMeFOSAA	--	--	--	ng/L	<4.4 U	<4.8 U	<4.5 U	<4.9 U	<5.1 U	<4.3 U	<5.2 U	<4.6 U	<4.9 U	<4.7 U	<4.8 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<4.4 U	<4.8 U	<4.5 U	<4.9 U	<5.1 U	<4.3 U	<5.2 U	16	7.8	9.2	5.1
NMeFOSE	--	--	--	ng/L	<3.6 U	<3.8 U	<3.6 U	<4.0 U	<4.1 U	<3.5 U	<4.2 U	<3.7 U	<3.9 U	<3.7 U	<3.8 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
HFPO-DA	--	--	300	ng/L	<3.6 U	<3.8 U	<3.6 U	<4.0 U	<4.1 U	<3.5 U	<4.2 U	<3.7 U	<3.9 U	<3.7 U	<3.8 U
DONA	--	--	3,000	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
9CI-PF3ONS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U
11CI-PF3OUdS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<2.0 U	<1.7 U	<2.1 U	<1.8 U	<2.0 U	<1.9 U	<1.9 U

Notes on Page 3.

Table 6
 GETS Streambed Groundwater PFAS Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Location	TPZ-M07	TPZ-M07	TPZ-M07	TPZ-M09	TPZ-M09	TPZ-M09	TPZ-U03	TPZ-U03	TPZ-U03	TPZ-U10	TPZ-U10
				Sample ID	GW-M07 (07142021)	GW-M07-09082021	GW-M07 (11162021)	GW-M09 (07142021)	GW-M09-09082021	GW-M09 (11162021)	GW-U03 (07142021)	GW-U03-09082021	GW-U03 (11162021)	GW-U10 (07142021)	GW-U10 (11162021)
				Sample Date	7/14/2021	9/8/2021	11/16/2021	7/14/2021	9/9/2021	11/16/2021	7/14/2021	9/9/2021	11/16/2021	7/14/2021	11/16/2021
				Sample Type	N	N	N	N	N	N	N	N	N	N	N
Unit															
PFBA	--	--	10,000	ng/L	1,000 D	600 D	210	51	120	89	210	18	<500 U	70	8.7
PFPeA	--	--	--	ng/L	4,400 D	2,600 D	960 D	140	460 D	310	690 D	37	<200 U	190	21
PFHxA	--	--	150,000	ng/L	3,700 D	2,100 D	630 D	95	290	220	970 D	31	<200 U	120	12
PFHpA	--	--	--	ng/L	2,200 D	1,200 D	350 D	39	130	70	720 D	18	<200 U	70	5.8
PFOA	70	20	--	ng/L	27,000 D	9,700 D	1,900 D	71	350	95	6,100 D	180	93 J	140	7.3
PFNA	--	--	30	ng/L	1,300 D	540 D	120	17	140 J+	38	120	4.7	<200 U	6.4	0.34 J
PFDA	--	--	300	ng/L	110	38	8.6	6	3.9	2.1 J	8.1	0.89 J	<200 U	1.0 J	<1.9 U
PFUnA	--	--	3,000	ng/L	81 J-	90	38	1.9	<1.9 UJ	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFDoA	--	--	500	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 UJ	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFTriA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	NA R	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFTeA	--	--	10,000	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	NA R	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFHxDA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 UJ	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFODA	--	--	400,000	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFBS	--	--	450,000	ng/L	66 JN	10	2.1	2.1	2.2 J+	1.8 J	7.7	1.1 J	<200 U	3.3	0.35 J
PFPeS	--	--	--	ng/L	43 J-	17	1.9	0.51 J	0.87 J	<2.2 U	6.3	0.48 J	<200 U	0.51 J	<1.9 U
PFHxS	--	--	40	ng/L	1,200 D	380 D	110	4.8	19	5.2	49	3.6	<200 U	12	0.73 J
PFHpS	--	--	--	ng/L	22	13	2.4	<1.8 U	3.1 JN	<2.2 U	1.9	<2.0 U	<200 U	<1.8 U	<1.9 U
PFOS	70	20	--	ng/L	2,100 D	1,100 D	230	16	20 J+	12	76	15	<200 U	13	<1.9 U
PFNS	--	--	--	ng/L	1.0 J	1.1 J	NA	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFDS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
PFDoS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
4:2 FTS	--	--	--	ng/L	700 D	210	63	1.0 J-	4.1	<2.2 U	54 J-	1.8 J	<200 U	0.55 J	<1.9 U
6:2 FTS	--	--	--	ng/L	6,200 D	6,400 D	3,000 D	480 D	1,600 D	630 D	2,200 D	110	<500 U	51	3.7 J
8:2 FTS	--	--	--	ng/L	2,400 D	1,700 D	420 D	96 J-	68	28	280 J-	42	<200 U	8.3	0.50 J
10:2 FTS	--	--	--	ng/L	16	16	18	1.3 J	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
FOSA	--	--	20 ⁽³⁾	ng/L	1,400 D	1,200 D	180	4.7	3.3	1.6 J	5.9	1.3 J	<200 U	<1.8 U	<1.9 UJ
NMeFOSA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
NMeFOSAA	--	--	--	ng/L	<4.5 U	1.8 JN	<4.6 U	<4.5 U	<4.8 U	<5.6 U	<4.5 U	<5.1 U	<500 U	<4.5 U	<4.8 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	130 J-	110	30	<4.5 U	<4.8 UJ	<5.6 U	<4.5 U	<5.1 U	<500 U	<4.5 U	<4.8 U
NMeFOSE	--	--	--	ng/L	<3.6 U	<3.8 U	<3.7 U	<3.6 U	<3.8 U	<4.5 U	<3.6 U	<4.1 U	<400 U	<3.6 U	<3.8 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
HFPO-DA	--	--	300	ng/L	<3.6 U	<3.8 U	<3.7 U	<3.6 U	<3.8 UJ	<4.5 U	<3.6 U	<4.1 U	<400 U	<3.6 U	<3.8 U
DONA	--	--	3,000	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
9CI-PF3ONS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U
11CI-PF3OUdS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<2.2 U	<1.8 U	<2.0 U	<200 U	<1.8 U	<1.9 U

Notes on Page 3.

Table 6
GETS Streambed Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin

Notes:

< = compound not detected at method detection limit.
 -- = no standard

⁽¹⁾ USEPA Combined Recommended Interim PRG for groundwater for PFOS and PFOA of 70 ng/L.

⁽²⁾ In June 2019, WDHS recommended individual groundwater standards of 20 ng/L for PFOA and PFOS. The WDNR proposed those standards through the state rulemaking process. In February 2022, the Wisconsin Natural Resources Board did not approve the proposed rulemaking. In February 2022, the Wisconsin Natural Resources Board approved a drinking water standard of 70 ng/L for PFOA and PFOS, individually and combined, for public water systems. This drinking water rule has been signed by the Governor and presented to the Wisconsin legislature for review. If the rule becomes effective, those standards will apply to public water sources, not private drinking water wells.

⁽³⁾ In November 2020, WDHS recommended a combined groundwater standard of 20 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA. WDHS also recommended individual standards for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFBS, PFHxS, PFNA, PFDA, PFDoA, PFHxA, PFTeA, PFUnA, PFBA, PFODA, DONA, and HFPO-DA. In March 2021, the Wisconsin Natural Resources Board approved a Statement of Scope to initiate a rulemaking for this recommendation. The WDNR has not yet proposed rules to initiate the rulemaking process to implement this recommendation; the agency's authority to do so under the Statement of Scope will expire in September 2023.

Acronyms and Abbreviations:

FD = field duplicate
 GETS = groundwater extraction and treatment system
 N = normal sample
 ng/L = nanograms per liter
 PFAS = per- and polyfluoroalkyl substances
 PRG = Preliminary Remediation Goal
 USEPA = United States Environmental Protection Agency
 WDHS = Wisconsin Department of Health Services
 WDNR = Wisconsin Department of Natural Resources

Laboratory Qualifiers:

D = Dilution required for sample analysis.
 DJ = Dilution required for sample analysis. The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 J+ = The result is an estimated quantity. The associated numerical value is expected to have a positive or high bias.
 J- = The result is an estimated quantity. The associated numerical value is expected to have a negative or low bias.
 JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 NA R = Rejected.
 U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 UJ = The compound was not detected above the reported sample method detection limit. However, the reported limit is approximate and may or may not represent the actual method detection limit.
 UJ- = The compound was not detected above the reported sample method detection limit. However, the reported limit is biased low and may or may not represent the actual method detection limit.

Chemical Abbreviations:

PFOA = Perfluorooctanoic acid (C8)	PFPeS = Perfluoropentanesulfonic acid (C5)
PFOS = Perfluorooctanesulfonic acid (C8)	PFHpS = Perfluoroheptanesulfonic acid (C7)
PFBS = Perfluorobutanesulfonic acid (C4)	PFNS = Perfluorononanesulfonic acid (C9)
PFHpA = Perfluoroheptanoic acid (C7)	PFDS = Perfluorodecanesulfonic acid (C10)
PFHxS = Perfluorohexanesulfonic acid (C6)	PFDoS = Perfluorododecanesulfonic acid (C12)
PFNA = Perfluorononanoic acid (C9)	FOSA = Perfluorooctanesulfonamide (C8)
PFDA = Perfluorodecanoic acid (C10)	NEtFOSA = N-ethylperfluorooctanesulfonamide (C10)
PFDoA = Perfluorododecanoic acid (C12)	NMeFOSA = N-methylperfluorooctanesulfonamide (C9)
PFHxA = Perfluorohexanoic acid (C6)	NMeFOSE = N-methylperfluorooctanesulfonamidoethanol (C11)
PFTeA = Perfluorotetradecanoic acid (C14)	NEtFOSE = N-ethylperfluorooctanesulfonamidoethanol (C12)
PFTriA = Perfluorotridecanoic acid (C13)	4:2 FTS = 4:2 fluorotelomer sulfonate (C6)
PFUnA = Perfluoroundecanoic acid (C11)	6:2 FTS = 6:2 fluorotelomer sulfonate (C8)
NEtFOSAA = N-ethylperfluorooctanesulfonamidoacetic acid (C12)	8:2 FTS = 8:2 fluorotelomer sulfonate (C10)
NMeFOSAA = N-methylperfluorooctanesulfonamidoacetic acid (C11)	10:2 FTS = 10:2 fluorotelomer sulfonate (C12)
PFBA = Perfluorobutanoic acid (C4)	DONA = 4,8-Dioxa-3H-perfluorononanoic acid (C7)
PFPeA = Perfluoropentanoic acid (C5)	HFPO-DA = Hexafluoropropylene oxide dimer acid (C6)
PFHxDA = Perfluoro-n-hexadecanoic acid (C16)	9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (C8)
PFODA = Perfluoro-n-octadecanoic acid (C18)	11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (C10)

Table 7
GETS Surface Water PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	Location	DB-INFLUENT	DB-INFLUENT	DB-INFLUENT	SW-L09	SW-L09	SW-L09	SW-L09	SW-M01	SW-M01	SW-M01
	Sample ID	DB-INFLUENT (05042021)	SC-200-B (071321)	SC-200-B (090821)	SW-L09 (05042021)	SW-L09 (07132021)	SW-L09-09082021	SW-L09 (11162021)	SW-M01 (05042021)	SW-M01 (07132021)	SW-M01-09082021
	Sample Date	5/4/2021	7/13/2021	9/8/2021	5/4/2021	7/13/2021	9/8/2021	11/16/2021	5/4/2021	7/13/2021	9/8/2021
	Sample Type	N	N	N	N	N	N	N	N	N	N
Unit											
PFBA	ng/L	60	64	58	60	68	66	64	56	68	68
PFPeA	ng/L	200	220	190	210	220	200	240	170	230	220
PFHxA	ng/L	240	240	190	250	230	200	230	210	230	210
PFHpA	ng/L	110	100	87	110	110	91	97	88	98	100
PFOA	ng/L	2,200 D	1,700 D	1,300 D	2,300 D	1,900 D	1,400 D	1,100 D	1,700 D	1,400 D	1,300 D
PFNA	ng/L	67	61	70	59	64	79	61	52	74	85
PFDA	ng/L	4.6	3.8	2.6	3.1	3.6	3	3.7	2.8	5.4	3.4
PFUnA	ng/L	1.5 J	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	1.3 J	<2.1 U
PFDoA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
PFTriA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
PFTeA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
PFHxDA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
PFODA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
PFBS	ng/L	6.1	5.2	4	6	5.6	4.3	3.9	4.6	5.1	4.3
PFPeS	ng/L	4.7	3.6	2.4	4.8	3.8	3.1	1.9 J	3.5	3.6	2.8
PFHxS	ng/L	50	44	38	55	47	39	42	46	48	45
PFHpS	ng/L	2.9	2.7	2.6	2.7	3	3.5 JN	2.3	2.5	3.5	2.8
PFOS	ng/L	140	130	110	100	140	120	130	93	180	140
PFNS	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
PFDS	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
PFDoS	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 UJ-	<2.0 U	<1.8 U	<1.8 U	<2.1 U
4:2 FTS	ng/L	22 J-	19 J-	15	23 J-	19 J-	17	18	19 J-	21 J-	19
6:2 FTS	ng/L	1,200 D	1,300 D	1,500 D	1,200 D	1,100 D	1,500 D	1,600 D	1,100 D	1,400 D	1,700 D
8:2 FTS	ng/L	160 J-	120	98	98 J-	120 J-	99	140	100	180	140
10:2 FTS	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
FOSA	ng/L	29	17	17	19	18	17	22	18	26	22
NMeFOSA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
NEtFOSA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
NMeFOSAA	ng/L	<4.1 U	<4.6 U	<5.1 U	<4.4 U	<4.7 U	<5.0 U	<5.0 U	<4.4 U	<4.6 U	<5.2 U
NEtFOSAA	ng/L	5.6	3.1 J	2.7 J	3.0 J	3.0 J	2.6 J	3.5 J	2.8 J	4.7	3.0 J
NMeFOSE	ng/L	<3.3 U	<3.7 U	<4.1 U	<3.5 U	<3.7 U	<4.0 U	<4.0 U	<3.5 U	<3.7 U	<4.2 U
NEtFOSE	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
HFPO-DA	ng/L	<3.3 U	<3.7 U	<4.1 U	<3.5 U	<3.7 U	<4.0 U	<4.0 U	<3.5 U	<3.7 U	<4.2 U
DONA	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
9Cl-PF3ONS	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U
11Cl-PF3OUdS	ng/L	<1.6 U	<1.8 U	<2.0 U	<1.7 U	<1.9 U	<2.0 U	<2.0 U	<1.8 U	<1.8 U	<2.1 U

Notes on Page 5.

Table 7
GETS Surface Water PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	Location	SW-M01	SW-M01	SW-M04	SW-M04	SW-M04	SW-M04	SW-M04	SW-M07	SW-M07	SW-M07
	Sample ID	DUP-01-09082021	SW-M01 (11162021)	SW-M04 (05042021)	SW-M04 (07132021)	DUP-01-07132021	SW-M04-09082021	SW-M04 (11162021)	SW-M07 (05042021)	SW-M07 (07132021)	SW-M07-09082021
	Sample Date	9/8/2021	11/16/2021	5/4/2021	7/13/2021	7/13/2021	9/8/2021	11/16/2021	5/4/2021	7/13/2021	9/8/2021
	Sample Type	FD	N	N	N	FD	N	N	N	N	N
Unit											
PFBA	ng/L	71	70	36	60	58	67	69 J-	38	59	67
PFPeA	ng/L	220	240	120	210	200	220	210	130	210	240
PFHxA	ng/L	210	230	99	180	180	190	210	99	170	180
PFHpA	ng/L	99	100	46	80	79	86	81	48	78	88
PFOA	ng/L	1,300 D	1,100 D	330	740 D	760 D	900 D	790 D	330	610 D	680 D
PFNA	ng/L	83	73	24	54	56	74	54	27	51	83
PFDA	ng/L	3.4	4.1	1.4 J	3.4	3.9	3.1	2.3	1.7	3.6	3.4
PFUnA	ng/L	<2.0 U	1.8	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFDoA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFTriA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFTeA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFHxDA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFODA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFBS	ng/L	4	3.1	2.5	4.4	4.3	3.8	3.7	2.5	4	3.3
PFPeS	ng/L	3.2	1.8	1.2 J	2.4	2.2	2.3	1.7 J-	1.1 J	1.8 J	1.8 J
PFHxS	ng/L	44	44	16	36	35	39	35	16	30	30
PFHpS	ng/L	2.8	2.7 I	1.1 J	2.5	2.4	2.7	2	1.2 J	2.1	2.5
PFOS	ng/L	140	150	54	130	140	120	110	63	130	140
PFNS	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFDS	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
PFDoS	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
4:2 FTS	ng/L	19	22	8.2 J-	15 J-	16 J-	18	16	8.6 J-	13 J-	16
6:2 FTS	ng/L	1,600 D	1,500 D	700 D	1,300 D	1,400 D	1,600 D	1,400 D	910 D	1,100 D	1,700 D
8:2 FTS	ng/L	110	140	51 J-	120	130	110	92 J+	64	120	120
10:2 FTS	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
FOSA	ng/L	22	29	2.5	13	13	16	13	2.9	9.2	9
NMeFOSA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
NEtFOSA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
NMeFOSAA	ng/L	<5.0 U	<4.2 U	<4.4 U	<4.6 U	<4.5 U	<5.0 U	<4.2 U	<4.3 U	<4.7 U	<5.2 U
NEtFOSAA	ng/L	3.0 J	5.3	<4.4 U	1.7 J	1.6 J	2.1 J	1.5 J	<4.3 U	<4.7 U	<5.2 U
NMeFOSE	ng/L	<4.0 U	<3.3 U	<3.5 U	<3.7 U	<3.6 U	<4.0 U	<3.3 U	<3.4 U	<3.7 U	<4.1 U
NEtFOSE	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
HFPO-DA	ng/L	<4.0 U	<3.3 U	<3.5 U	<3.7 U	<3.6 U	<4.0 U	<3.3 U	<3.4 U	<3.7 U	<4.1 U
DONA	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
9CI-PF3ONS	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 U	<1.7 U	<1.9 U	<2.1 U
11CI-PF3OUdS	ng/L	<2.0 U	<1.7 U	<1.8 U	<1.9 U	<1.8 U	<2.0 U	<1.7 UJ-	<1.7 U	<1.9 U	<2.1 U

Notes on Page 5.

Table 7
GETS Surface Water PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	Location	SW-M07	SW-M09	SW-M09	SW-M09	SW-M09	SW-M09	SW-U03	SW-U03	SW-U03	SW-U03
	Sample ID	SW-M07 (11162021)	SW-M09 (05042021)	SW-M09 (07132021)	SW-M09-09082021	SW-M09 (11162021)	DUP-02-11162021	SW-U03 (05042021)	DUP-01 (050421)	SW-U03 (07132021)	SW-U03-09082021
	Sample Date	11/16/2021	5/4/2021	7/13/2021	9/8/2021	11/16/2021	11/16/2021	5/4/2021	5/4/2021	7/13/2021	9/8/2021
	Sample Type	N	N	N	N	N	FD	N	FD	N	N
	Unit										
PFBA	ng/L	70	37	57	66	68	73	23	22	37	45
PFPeA	ng/L	250	120	190	230	230	250	54	55	110	130
PFHxA	ng/L	200	100	160	180	210	200	43	40	85	100
PFHpA	ng/L	83	46	72	86	82	90	24	23	40	52
PFOA	ng/L	570 D	330	540 D	630 D	610 D	620 D	86	90	200	260
PFNA	ng/L	48	23	59	74	38	44	3.2	3.2	7.9	8.3
PFDA	ng/L	<1.7 U	1.6 J	3.9	3.4	2.3	2.9	0.56 J	0.56 J	1.3 J	<2.1 U
PFUnA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFDoA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFTriA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFTeA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFHxDA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFODA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFBS	ng/L	3.6	2.6	3.8	3.3	3.3	3	2.1	2.1	3	2.6
PFPeS	ng/L	1.1 J	1.4 J	1.8	1.9 J	1.6 J	0.76 J	0.83 J	0.73 J	1.4 J	1.4 J
PFHxS	ng/L	28	16	28	27	25	24	12	13	21	20
PFHpS	ng/L	1.9	1.2 J	2.5	2.5	2.5	1.9	1.0 J	1.0 J	2.2	2.6
PFOS	ng/L	130	55	160	130	140	140	52	54	160	140
PFNS	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFDS	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
PFDoS	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
4:2 FTS	ng/L	17	7.3 J-	12 J-	13	14	15	1.8 J-	1.8 J-	3.9 J-	4.7
6:2 FTS	ng/L	1,500 D	870 D	1,300 D	1,600 D	1,600 D	1,700 D	160 J-	170 J-	450 D	690 D
8:2 FTS	ng/L	120	46 J-	130	130	120	120	10	9.4 J-	31	31
10:2 FTS	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
FOSA	ng/L	13	1.0 J	1.9	1.8 J	1.3 J	0.88 J	<1.8 U	<1.7 U	<1.8 U	<2.1 U
NMeFOSA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
NEtFOSA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
NMeFOSAA	ng/L	<4.3 U	<4.2 U	<4.5 U	<5.2 U	<5.1 U	<4.4 U	<4.4 U	<4.3 U	<4.5 U	<5.2 U
NEtFOSAA	ng/L	1.3 J	<4.2 U	<4.5 U	<5.2 U	<5.1 U	<4.4 U	<4.4 U	<4.3 U	<4.5 U	<5.2 U
NMeFOSE	ng/L	<3.5 U	<3.4 U	<3.6 U	<4.1 U	<4.1 U	<3.5 U	<3.5 U	<3.4 U	<3.6 U	<4.2 U
NEtFOSE	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
HFPO-DA	ng/L	<3.5 U	<3.4 U	<3.6 U	<4.1 U	<4.1 U	<3.5 U	<3.5 U	<3.4 U	<3.6 U	<4.2 U
DONA	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
9CI-PF3ONS	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U
11CI-PF3OUdS	ng/L	<1.7 U	<1.7 U	<1.8 U	<2.1 U	<2.0 U	<1.8 U	<1.8 U	<1.7 U	<1.8 U	<2.1 U

Notes on Page 5.

Table 7
GETS Surface Water PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	Location	SW-U03	SW-U10	SW-U10	SW-U10	SW-U10
	Sample ID	SW-U03 (11162021)	SW-U10 (05042021)	SW-U10 (07132021)	SW-U10-09082021	SW-U10 (11162021)
	Sample Date	11/16/2021	5/4/2021	7/13/2021	9/8/2021	11/16/2021
	Sample Type	N	N	N	N	N
	Unit					
PFBA	ng/L	46 J	13	16	17	17
PFPeA	ng/L	150	19	32	34	36
PFHxA	ng/L	120	14	20	22	25
PFHpA	ng/L	53	11	13	14	14
PFOA	ng/L	270	11	18	21	21
PFNA	ng/L	7.5 J	1.4 J	2.5	2.4	2.1
PFDA	ng/L	<19 U	0.49 J	0.46 J	<2.0 U	<1.9 U
PFUnA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFDoA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFTriA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFTeA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFHxDA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFODA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFBS	ng/L	2.4 J	1.7 J	2	2	1.7 J
PFPeS	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFHxS	ng/L	20	2	3.6	4.1	4.1
PFHpS	ng/L	3.0 J	<2.0 U	<1.9 U	<2.0 U	0.27 J
PFOS	ng/L	170	3.8	7.2	7.1	6.5
PFNS	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFDS	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
PFDoS	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
4:2 FTS	ng/L	5.7 J	<2.0 U	<1.9 U	<2.0 U	<1.9 U
6:2 FTS	ng/L	580	7.2	8.2 J-	14	14
8:2 FTS	ng/L	33	0.47 J	1.1 J	1.4 J	1.2 J
10:2 FTS	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
FOSA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
NMeFOSA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
NEtFOSA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
NMeFOSAA	ng/L	<48 U	<5.0 U	<4.6 U	<5.0 U	<4.8 U
NEtFOSAA	ng/L	<48 U	<5.0 U	<4.6 U	<5.0 U	<4.8 U
NMeFOSE	ng/L	<38 U	<4.0 U	<3.7 U	<4.0 U	<3.8 U
NEtFOSE	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
HFPO-DA	ng/L	<38 U	<4.0 U	<3.7 U	<4.0 U	<3.8 U
DONA	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
9Cl-PF3ONS	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U
11Cl-PF3OUdS	ng/L	<19 U	<2.0 U	<1.9 U	<2.0 U	<1.9 U

Notes on Page 5.

Table 7
GETS Surface Water PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin

Notes:

< = compound not detected at method detection limit

Acronyms and Abbreviations:

FD = field duplicate
 GETS = groundwater extraction and treatment system
 N = normal sample
 ng/L = nanograms per liter
 PFAS = per- and polyfluoroalkyl substances

Laboratory Qualifiers:

D = Dilution required for sample analysis.
 J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 J+ = The result is an estimated quantity. The associated numerical value is expected to have a positive or high bias.
 J- = The result is an estimated quantity. The associated numerical value is expected to have a negative or low bias.
 JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 I = The result is greater than the method detection limit but less than the reporting limit.
 U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 UJ- = The analyte was analyzed for, but was not detected. The reported detection limit is biased low and may be inaccurate or imprecise.

Chemical Abbreviations:

PFOA = Perfluorooctanoic acid (C8)	PFPeS = Perfluoropentanesulfonic acid (C5)
PFOS = Perfluorooctanesulfonic acid (C8)	PFHpS = Perfluoroheptanesulfonic acid (C7)
PFBS = Perfluorobutanesulfonic acid (C4)	PFNS = Perfluorononanesulfonic acid (C9)
PFHpA = Perfluoroheptanoic acid (C7)	PFDS = Perfluorodecanesulfonic acid (C10)
PFHxS = Perfluorohexanesulfonic acid (C6)	PFDoS = Perfluorododecanesulfonic acid (C12)
PFNA = Perfluorononanoic acid (C9)	FOSA = Perfluorooctanesulfonamide (C8)
PFDA = Perfluorodecanoic acid (C10)	NEtFOSA = N-ethylperfluorooctanesulfonamide (C10)
PFDoA = Perfluorododecanoic acid (C12)	NMeFOSA = N-methylperfluorooctanesulfonamide (C9)
PFHxA = Perfluorohexanoic acid (C6)	NMeFOSE = N-methylperfluorooctanesulfonamidoethanol (C11)
PFTeA = Perfluorotetradecanoic acid (C14)	NEtFOSE = N-ethylperfluorooctanesulfonamidoethanol (C12)
PFTriA = Perfluorotridecanoic acid (C13)	4:2 FTS = 4:2 fluorotelomer sulfonate (C6)
PFUnA = Perfluoroundecanoic acid (C11)	6:2 FTS = 6:2 fluorotelomer sulfonate (C8)
NEtFOSAA = N-ethylperfluorooctanesulfonamidoacetic acid (C12)	8:2 FTS = 8:2 fluorotelomer sulfonate (C10)
NMeFOSAA = N-methylperfluorooctanesulfonamidoacetic acid (C11)	10:2 FTS = 10:2 fluorotelomer sulfonate (C12)
PFBA = Perfluorobutanoic acid (C4)	DONA = 4,8-Dioxa-3H-perfluorononanoic acid (C7)
PFPeA = Perfluoropentanoic acid (C5)	HFPO-DA = Hexafluoropropylene oxide dimer acid (C6)
PFHxDA = Perfluoro-n-hexadecanoic acid (C16)	9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (C8)
PFODA = Perfluoro-n-octadecanoic acid (C18)	11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (C10)

Table 8
 GETS Baseline Groundwater PFAS Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	SDG		5002150141	5002148631	5002148631	5002148631	5002150141	5002148951	5002148951	5002150141	5002150141
			Location	MW-EX-2	MW-EX-3	MW-EX-4	MW-EX-5	PZ-15D	PZ-15S	PZ-15S	PZ-16D	PZ-16S	
			Sample ID	MW-EX-2-04122022	MW-EX-3 (040622)	MW-EX-4 (040622)	MW-EX-5 (040622)	PZ-15D-04112022	DUP-03-04082022	PZ-15S-04082022	PZ-16D-04112022	PZ-16S-04112022	
			Sample Date	4/12/2022	4/6/2022	4/6/2022	4/6/2022	4/11/2022	4/8/2022	4/8/2022	4/11/2022	4/11/2022	
			Sample Type	N	N	N	N	N	FD	N	N	N	
			November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Unit									
PFBA	--	--	10,000	ng/L	240	1,300 D	800 D	250	81	10	9.7	4,300 D	18
PFPeA	--	--	--	ng/L	1,300 D	5,500 D	3,300 D	700 D	290	3.1	2.6	19,000 D	29
PFHxA	--	--	150,000	ng/L	680 D	4,400 D	3,900 D	1,400 D	220	3.4	3.1	12,000	30
PFHpA	--	--	--	ng/L	230	2,400 D	1,700 D	500 D	150	0.53 J	0.54 J	4,500	15
PFOA	70	20	--	ng/L	120	18,000 D	35,000 D	13,000 D	1,100 D	1.8 J	5.2	22,000 D	140
PFNA	--	--	30	ng/L	44	4,000 D	1,200 D	390 D	270	<1.9 U	<1.9 U	1,400	0.38 J
PFDA	--	--	300	ng/L	0.82 J	99 J-	90 J-	27	17	<1.9 U	<1.9 U	210	<1.8 U
PFUnA	--	--	3,000	ng/L	<1.9 U	45 J-	55	13 J-	3.3	<1.9 U	<1.9 U	37 J-	<1.8 U
PFDoA	--	--	500	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
PFTriA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
PFTeA	--	--	10,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
PFHxDA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
PFODA	--	--	400,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
PFBS	--	--	450,000	ng/L	1.3 J	17	54 J-	46	1.4 J	0.71 J	0.66 J	12 J-	2.7
PFPeS	--	--	--	ng/L	0.51 J	17 J-	57	39	1.3 J	<1.9 U	<1.9 U	21 J-	1.5 J
PFHxS	--	--	40	ng/L	6.7	630 D	1,200 D	500 D	54	1.5 J	1.4 J	530	11
PFHpS	--	--	--	ng/L	<1.9 U	8.8	25	8.6	0.81 J	<1.9 U	<1.9 U	20 J-	0.82 J
PFOS	70	20	--	ng/L	10	990 D	2,600 D	530 D	66	<1.9 U	<1.9 U	3,700 D	48
PFNS	--	--	--	ng/L	<1.9 U	0.64 JN	0.70 J	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
PFDS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
PFDoS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
4:2 FTS	--	--	--	ng/L	1.5 J	430 D	580 D	190	18	<1.9 U	<1.9 U	2,100 D	<1.8 U
6:2 FTS	--	--	--	ng/L	1,600 D	8,400 D	8,200 D	5,000 D	1,800 D	<4.7 U	2.3 J	10,000 D	3.0 J
8:2 FTS	--	--	--	ng/L	25	2,800 D	2,200 D	1,100 D	590 D	0.87 J	0.83 J	5,000 D	0.64 J
10:2 FTS	--	--	--	ng/L	<1.9 U	1.9	8.2 J-	1.0 J-	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
FOSA	--	--	20 ⁽³⁾	ng/L	<1.9 U	370 J-	1500 D	280	3.5	<1.9 U	<1.9 U	100	<1.8 U
NMeFOSA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
NMeFOSAA	--	--	--	ng/L	<4.8 U	<4.7 U	<4.9 U	<4.6 U	<4.6 U	<4.7 U	<4.7 U	<4.7 U	<4.6 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<4.8 U	43	110	42	<4.6 U	<4.7 U	<4.7 U	58 J-	<4.6 U
NMeFOSE	--	--	--	ng/L	<3.9 U	<3.8 U	<3.9 U	<3.7 U	<3.7 U	<3.7 U	<3.8 U	<3.7 U	<3.7 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
HFPO-DA	--	--	300	ng/L	<3.9 U	<3.8 U	<3.9 U	<3.7 U	<3.7 U	<3.7 U	<3.8 U	<3.7 U	<3.7 U
DONA	--	--	3,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
9CI-PF3ONS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U
11CI-PF3OUdS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U

Notes on Page 6.

Table 8
 GETS Baseline Groundwater PFAS Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	SDG		5002150141	5002150141	5002150141	5002150141	5002150141	5002148951	5002148951	5002148951	5002148951
			Location	5002150141	5002150141	5002150141	5002150141	5002150141	5002148951	5002148951	5002148951	5002148951	
			Sample ID	PZ-18D	PZ-1D	PZ-1D	PZ-22D	PZ-22S	PZ-23	PZ-24-17	PZ-24-47	PZ-25-17	
			Sample Date	PZ-18D-04112022	DUP-05-04122022	PZ-1D-04122022	PZ-22D-04112022	PZ-22S-04112022	PZ-23-04072022	PZ-24-17-04072022	PZ-24-47-04072022	PZ-25-17-04072022	
			Sample Type	4/11/2022	4/12/2022	4/12/2022	4/11/2022	4/11/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022	
			November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Unit	N	FD	N	N	N	N	N	N	
PFBA	--	--	10,000	ng/L	1,100 D	92	93	480 D	12	690 D	35	34	42
PFPeA	--	--	--	ng/L	4,000 D	210	210	1,900 D	13	2,000 D	78	97	78
PFHxA	--	--	150,000	ng/L	2,800 D	210	220	1,600 D	9.7	4,200 D	54	120	45
PFHpA	--	--	--	ng/L	1,500 D	6.9	6.9	650 D	4.8	3,500 D	27	72	12
PFOA	70	20	--	ng/L	6,900 D	45	40	4,100 D	17	21,000 D	12	1,000 D	6.3
PFNA	--	--	30	ng/L	960 D	0.59 J	0.67 J	450 D	<1.9 U	77	0.94 J	30	0.43 J
PFDA	--	--	300	ng/L	91	<1.9 U	<1.9 U	39	<1.9 U	<1.8 U	<1.9 U	2.2	<2.0 U
PFUnA	--	--	3,000	ng/L	47	<1.9 U	<1.9 U	22	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFDoA	--	--	500	ng/L	3.7	<1.9 U	<1.9 U	2.3	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFTriA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFTeA	--	--	10,000	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFHxDA	--	--	--	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFODA	--	--	400,000	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFBS	--	--	450,000	ng/L	46	<1.9 U	<1.9 U	34	0.67 J	57 JN	2.3	3.6	2.1
PFPeS	--	--	--	ng/L	52	<1.9 U	<1.9 U	37	<1.9 U	14	<1.9 U	4.3	<2.0 U
PFHxS	--	--	40	ng/L	600 D	<1.9 U	<1.9 U	350 D	2.1	180	0.76 J	50	0.63 J
PFHpS	--	--	--	ng/L	23	<1.9 U	<1.9 U	17	<1.9 U	<1.8 U	<1.9 U	2.2	<2.0 U
PFOS	70	20	--	ng/L	1,300 D	1.3 J	1.4 J	550 D	<1.9 U	<1.8 U	2.1	74	3.1 JN
PFNS	--	--	--	ng/L	0.80 JN	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFDS	--	--	--	ng/L	1.1 J	<1.9 U	<1.9 U	0.45 J	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
PFDoS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
4:2 FTS	--	--	--	ng/L	130	<1.9 U	0.22 J	73	<1.9 U	110	<1.9 U	21	<2.0 U
6:2 FTS	--	--	--	ng/L	7,700 D	17	17	5,000 D	2.9 J	600 D	<4.7 U	1,000 D	<5.0 U
8:2 FTS	--	--	--	ng/L	3,000 D	2.7	3.5	1,700 D	2.4	<1.8 U	<1.9 U	110	<2.0 U
10:2 FTS	--	--	--	ng/L	410 D	<1.9 U	<1.9 U	210	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
FOSA	--	--	20 ⁽³⁾	ng/L	330 D	<1.9 U	1.1 J	160	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
NMeFOSA	--	--	--	ng/L	2.3	<1.9 U	<1.9 U	1.3 J	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
NMeFOSAA	--	--	--	ng/L	2.6 JN	<4.6 U	<4.7 U	<4.8 U	<4.7 U	<4.6 U	<4.7 U	<4.6 U	<5.0 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	170	<4.6 U	<4.7 U	82	<4.7 U	<4.6 U	<4.7 U	<4.6 U	<5.0 U
NMeFOSE	--	--	--	ng/L	<3.7 U	<3.7 U	<3.7 U	<3.8 U	<3.7 U	<3.7 U	<3.8 U	<3.7 U	<4.0 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
HFPO-DA	--	--	300	ng/L	<3.7 U	<3.7 U	<3.7 U	<3.8 U	<3.7 U	<3.7 U	<3.8 U	<3.7 U	<4.0 U
DONA	--	--	3,000	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
9CI-PF3ONS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U
11CI-PF3OUdS	--	--	--	ng/L	<1.8 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<1.9 U	<1.9 U	<2.0 U

Notes on Page 6.

Table 8
 GETS Baseline Groundwater PFAS Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	SDG		5002148951	5002148631	5002148631	5002150141	5002148631	5002148631	5002148631	5002148951	5002148951
			Location		PZ-29-17	PZ-29-43	PZ-29-68	PZ-3	PZ-30-12	PZ-30-45	PZ-30-59	PZ-31-17	PZ-31-40
			Sample ID		PZ-29-17-04072022	PZ-29-43 (040722)	PZ-29-68 (040722)	PZ-3-04112022	PZ-30-12 (040622)	PZ-30-45 (040622)	PZ-30-59 (040622)	PZ-31-17-04072022	DUP-01-04072022
			Sample Date		4/7/2022	4/7/2022	4/7/2022	4/11/2022	4/6/2022	4/6/2022	4/6/2022	4/7/2022	4/7/2022
			Sample Type		N	N	N	N	N	N	N	N	FD
			November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Unit									
PFBA	--	--	10,000	ng/L	24	36	78	1,900 D	9.9	36	<4.5 U	22	170
PFPeA	--	--	--	ng/L	48	96	170	4,800 D	10	88	1.7 J	44	430 D
PFHxA	--	--	150,000	ng/L	38	170	250	6,400 D	11	120	2.3	34	910 D
PFHpA	--	--	--	ng/L	23	190	160	2,400 D	4.5	17	0.26 J	22	380
PFOA	70	20	--	ng/L	7.2	1,800 D	1,000 D	33,000 D	43	130	1.4 J	18	1,100 D
PFNA	--	--	30	ng/L	<1.9 U	6.9	21	1,800 D	0.41 J	<1.9 U	<1.8 U	0.91 J	130
PFDA	--	--	300	ng/L	<1.9 U	0.56 J	<1.9 U	190	<1.9 U	<1.9 U	<1.8 U	<2.0 U	1.3 J
PFUnA	--	--	3,000	ng/L	<1.9 U	<1.9 U	<1.9 U	70	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFDoA	--	--	500	ng/L	<1.9 U	<1.9 U	<1.9 U	2.1	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFTriA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFTeA	--	--	10,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFHxDA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFODA	--	--	400,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFBS	--	--	450,000	ng/L	1.3 J	2.2	3.2	170	0.97 J	0.74 J	<1.8 U	27	8.3
PFPeS	--	--	--	ng/L	<1.9 U	1.2 J	1.5 J	180	<1.9 U	<1.9 U	<1.8 U	<2.0 U	9.3
PFHxS	--	--	40	ng/L	<1.9 U	7.3	9.5	2,200 D	0.93 J	<1.9 U	<1.8 U	4.9	73
PFHpS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	52	<1.9 U	<1.9 U	<1.8 U	<2.0 U	2.6
PFOS	70	20	--	ng/L	<1.9 U	1.7 J	1.5 J	4,100 D	<1.9 U	<1.9 U	<1.8 U	6	100
PFNS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	1.4 J	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFDS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	0.77 J	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
PFDoS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
4:2 FTS	--	--	--	ng/L	<1.9 U	5.5	20	580 D	<1.9 U	1.3 J	<1.8 U	<2.0 U	27
6:2 FTS	--	--	--	ng/L	4.4 J	45	240	9,800 DJ-	2.5 J	4.1 J	<4.5 U	<4.9 U	580 D
8:2 FTS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	4,700 D	<1.9 U	<1.9 U	<1.8 U	<2.0 U	4.7
10:2 FTS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	180	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
FOSA	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<1.9 U	1,000 D	<1.9 U	<1.9 U	<1.8 U	<2.0 U	1.0 J
NMeFOSA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	1.6 J	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
NMeFOSAA	--	--	--	ng/L	<4.7 U	<4.7 U	<4.8 U	7.3 JN	<4.7 U	<4.8 U	<4.5 U	<4.9 U	<4.8 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<4.7 U	<4.7 U	<4.8 U	450 DJ	<4.7 U	<4.8 U	<4.5 U	<4.9 U	<4.8 U
NMeFOSE	--	--	--	ng/L	<3.8 U	<3.7 U	<3.8 U	<3.7 U	<3.8 U	<3.8 U	<3.6 U	<3.9 U	<3.8 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
HFPO-DA	--	--	300	ng/L	<3.8 U	<3.7 U	<3.8 U	<3.7 U	<3.8 U	<3.8 U	<3.6 U	<3.9 U	<3.8 U
DONA	--	--	3,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
9CI-PF3ONS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U
11CI-PF3OUdS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.8 U	<2.0 U	<1.9 U

Notes on Page 6.

Table 8
 GETS Baseline Groundwater PFAS Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	SDG										
			5002148951	5002148951	5002148631	5002148631	5002150141	5002148951	5002148951	5002148951	5002148631		
			Location	PZ-31-40	PZ-31-53	PZ-32-18	PZ-32-72	PZ-45-31	PZ-47-40	PZ-47-40	PZ-4D	PZ-51-38	
			Sample ID	PZ-31-40-04072022	PZ-31-53-04072022	PZ-32-18 (040622)	PZ-32-72 (040622)	PZ-45-31-04122022	DUP-02-04082022	PZ-47-40-04082022	PZ-4D-04082022	PZ-51-38 (040622)	
			Sample Date	4/7/2022	4/7/2022	4/6/2022	4/6/2022	4/12/2022	4/8/2022	4/8/2022	4/8/2022	4/6/2022	
Sample Type	N	N	N	N	N	FD	N	N	N				
November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Unit												
PFBA	--	--	10,000	ng/L	150 J-	<4.8 U	8.2	<4.7 U	100	NA	2,900 D	2,700 D	110
PFPeA	--	--	--	ng/L	440 D	6	10	1.2 J	340	NA	12,000 D	3,700 D	280
PFHxA	--	--	150,000	ng/L	870 D	8	8.2	0.96 J	240	NA	9,600 D	6,400 D	350
PFHpA	--	--	--	ng/L	390 D	3.4	8	0.75 J	160	NA	3,100 D	2,300 D	170
PFOA	70	20	--	ng/L	10,000 D	81	5.5	1.9	940 D	NA	13,000 D	42,000 D	3,700 D
PFNA	--	--	30	ng/L	120 J-	0.47 J	1.0 J	0.25 J	320	NA	760 D	230 J-	130
PFDA	--	--	300	ng/L	1.3 J	<1.9 U	<1.9 U	<1.9 U	20	NA	53 J-	1.1 J-	13
PFUnA	--	--	3,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	4.5	NA	4.7 J-	<1.9 U	<2.0 U
PFDoA	--	--	500	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
PFTriA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
PFTeA	--	--	10,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
PFHxDA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
PFODA	--	--	400,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
PFBS	--	--	450,000	ng/L	7.7 J-	<1.9 U	2.9	<1.9 U	1.8 J	NA	11 J-	150 J-	8.6
PFPeS	--	--	--	ng/L	9.2	<1.9 U	<1.9 U	<1.9 U	1.2 J	NA	13 J-	92	12
PFHxS	--	--	40	ng/L	69 J-	0.60 J	0.60 J	<1.9 U	57	NA	320 J-	620 D	110
PFHpS	--	--	--	ng/L	2.6 J-	<1.9 U	<1.9 U	<1.9 U	1.3 JN	NA	5.9 J-	3.4	11
PFOS	70	20	--	ng/L	96	1.2 J	1.6 J	<1.9 U	74	NA	870 D	79 J-	600 D
PFNS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
PFDS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
PFDoS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
4:2 FTS	--	--	--	ng/L	24	<1.9 U	<1.9 U	<1.9 U	25	NA	380 D	440 D	67 J-
6:2 FTS	--	--	--	ng/L	420 D	6.3	<4.8 U	<4.7 U	2,300 D	NA	10,000 D	6,600 D	2,200 D
8:2 FTS	--	--	--	ng/L	3.8	<1.9 U	<1.9 U	<1.9 U	570 D	NA	2,200 D	37 J-	360 D
10:2 FTS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
FOSA	--	--	20 ⁽³⁾	ng/L	1.1 J	<1.9 U	<1.9 U	<1.9 U	3.3	NA	49 J-	4.3 J-	69
NMeFOSA	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
NMeFOSAA	--	--	--	ng/L	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<4.8 U	NA	<4.9 U	<4.8 U	<4.9 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<4.8 U	NA	19 J-	<4.8 U	23
NMeFOSE	--	--	--	ng/L	<3.7 U	<3.8 U	<3.9 U	<3.7 U	<3.8 U	NA	<3.9 U	<3.8 U	<3.9 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
HFPO-DA	--	--	300	ng/L	<3.7 U	<3.8 U	<3.9 U	<3.7 U	<3.8 U	NA	<3.9 U	<3.8 U	<3.9 U
DONA	--	--	3,000	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
9CI-PF3ONS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U
11CI-PF3OUdS	--	--	--	ng/L	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	NA	<2.0 U	<1.9 U	<2.0 U

Notes on Page 6.

Table 8
 GETS Baseline Groundwater PFAS Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



Chemical Name	USEPA Recommended PRG ⁽¹⁾	June 2019 WDHS (Not Adopted by WDNR Board) ⁽²⁾	SDG		5002148631	5002148631	5002148951	5002148951	5002148951	5002148631
			Location		PZ-52-41	PZ-53-40	PZ-54-47	PZ-55-64	PZ-56-42	PZ-57-38
			Sample ID		PZ-52-41 (040622)	PZ-53-40 (040622)	PZ-54-47-04072022	PZ-55-64-04072022	PZ-56-42-04072022	PZ-57-38 (040622)
			Sample Date		4/6/2022	4/6/2022	4/7/2022	4/7/2022	4/7/2022	4/6/2022
			Sample Type		N	N	N	N	N	N
			November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽³⁾	Unit						
PFBA	--	--	10,000	ng/L	1,200 D	<4.7 U	60	25	NA	8.2
PFPeA	--	--	--	ng/L	3,200 D	0.46 J	190	95	NA	24
PFHxA	--	--	150,000	ng/L	6,400 D	0.83 J	300	72	3,500 D	12
PFHpA	--	--	--	ng/L	3,900 D	0.44 J	120	53	1,500 D	11
PFOA	70	20	--	ng/L	65,000 D	4.4	2,600 D	300	26,000 D	13
PFNA	--	--	30	ng/L	3,400 D	0.27 J	77	18	1,900 D	0.55 J
PFDA	--	--	300	ng/L	75	<1.9 U	9	6.5	150	<1.8 U
PFUnA	--	--	3,000	ng/L	<1.9 U	<1.9 U	1.1 J	1.8 JN	89	<1.8 U
PFDoA	--	--	500	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	1.4 J	<1.8 U
PFTriA	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
PFTeA	--	--	10,000	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
PFHxDA	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
PFODA	--	--	400,000	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
PFBS	--	--	450,000	ng/L	190 J-	<1.9 U	7.8	1.3 J	110	<1.8 U
PFPeS	--	--	--	ng/L	210	<1.9 U	8.9	1.6 J	120	<1.8 U
PFHxS	--	--	40	ng/L	1,400 D	0.96 J	77	29	1,700 D	0.73 J
PFHpS	--	--	--	ng/L	35	<1.9 U	7.3	1.8 J	46	<1.8 U
PFOS	70	20	--	ng/L	2,300 D	<1.9 U	460 D	75	2,800 D	0.51 J
PFNS	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	1.5 J	<1.8 U
PFDS	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
PFDoS	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
4:2 FTS	--	--	--	ng/L	1,500 D	<1.9 U	68	2.1	370 D	<1.8 U
6:2 FTS	--	--	--	ng/L	8,900 D	3.3 J	1,800 D	390 D	7,600 D	5.7
8:2 FTS	--	--	--	ng/L	1,500 D	0.45 J	220	360 D	3,800 D	1.1 J
10:2 FTS	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	160	<1.8 U
FOSA	--	--	20 ⁽³⁾	ng/L	20 J-	<1.9 U	63	21	1,500 D	<1.8 U
NMeFOSA	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
NEtFOSA	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
NMeFOSAA	--	--	--	ng/L	<4.7 U	<4.7 U	<4.9 U	<4.7 U	14 JN	<4.6 U
NEtFOSAA	--	--	20 ⁽³⁾	ng/L	<4.7 U	<4.7 U	13	3.7 J	260	<4.6 U
NMeFOSE	--	--	--	ng/L	<3.7 U	<3.8 U	<3.9 U	<3.7 U	<3.7 U	<3.7 U
NEtFOSE	--	--	20 ⁽³⁾	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
HFPO-DA	--	--	300	ng/L	<3.7 U	<3.8 U	<3.9 U	<3.7 U	<3.7 U	<3.7 U
DONA	--	--	3,000	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
9CI-PF3ONS	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U
11CI-PF3OUdS	--	--	--	ng/L	<1.9 U	<1.9 U	<2.0 U	<1.9 U	<1.9 U	<1.8 U

Notes on Page 6.

Table 8
GETS Baseline Groundwater PFAS Results
GETS Pre-Startup Monitoring Data Package
Tyco Fire Technology Center, Marinette, Wisconsin

Notes:

< = compound not detected at method detection limit

-- = no standard

(1) USEPA Combined Recommended Interim Preliminary Remediation Goal for groundwater for PFOS and PFOA of 70 ng/L.

(2) In June 2019, WDHS recommended individual groundwater standards of 20 ng/L for PFOA and PFOS. The WDNR proposed those standards through the state rulemaking process. In February 2022, the Wisconsin Natural Resources Board did not approve the proposed rulemaking. In February 2022, the Wisconsin Natural Resources Board approved a drinking water standard of 70 ng/L for PFOA and PFOS, individually and combined, for public water systems. This drinking water rule has been signed by the Governor and presented to the Wisconsin legislature for review. If the rule becomes effective, those standards will apply to public water sources, not private drinking water wells.

(3) In November 2020, WDHS recommended a combined groundwater standard of 20 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA. WDHS also recommended individual standards for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFBS, PFHxS, PFNA, PFDA, PFDoA, PFHxA, PFTeA, PFUnA, PFBA, PFODA, DONA, and HFPO-DA. In March 2021, the Wisconsin Natural Resources Board approved a Statement of Scope to initiate a rulemaking for this recommendation. The WDNR has not yet proposed rules to initiate the rulemaking process to implement this recommendation; the agency's authority to do so under the Statement of Scope will expire in September 2023.

Acronyms and Abbreviations:

FD = field duplicate

GETS = groundwater extraction and treatment system

N = normal sample

ng/L = nanogram per liter

PFAS = per- and polyfluoroalkyl substances

PRG = Preliminary Remediation Goal

USEPA = United States Environmental Protection Agency

WDHS = Wisconsin Department of Health Services

WDNR = Wisconsin Department of Natural Resources

Laboratory Qualifiers:

D = Compound quantitated using a secondary dilution.

DJ = Diluted. Indicates an estimated value.

DJ- = Diluted. The result is an estimated quantity, but the result may be biased low.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J- = The result is an estimated quantity, but the result may be biased low.

JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Chemical Abbreviations:

PFOA = Perfluorooctanoic acid (C8)

PFOS = Perfluorooctanesulfonic acid (C8)

PFBS = Perfluorobutanesulfonic acid (C4)

PFHpA = Perfluoroheptanoic acid (C7)

PFHxS = Perfluorohexanesulfonic acid (C6)

PFNA = Perfluorononanoic acid (C9)

PFDA = Perfluorodecanoic acid (C10)

PFDoA = Perfluorododecanoic acid (C12)

PFHxA = Perfluorohexanoic acid (C6)

PFTeA = Perfluorotetradecanoic acid (C14)

PFTriA = Perfluorotridecanoic acid (C13)

PFUnA = Perfluoroundecanoic acid (C11)

NEtFOSAA = N-ethylperfluorooctanesulfonamidoacetic acid (C12)

NMeFOSAA = N-methylperfluorooctanesulfonamidoacetic acid (C11)

PFBA = Perfluorobutanoic acid (C4)

PFPeA = Perfluoropentanoic acid (C5)

PFHxDA = Perfluoro-n-hexadecanoic acid (C16)

PFODA = Perfluoro-n-octadecanoic acid (C18)

PFPeS = Perfluoropentanesulfonic acid (C5)

PFHpS = Perfluoroheptanesulfonic acid (C7)

PFNS = Perfluorononanesulfonic acid (C9)

PFDS = Perfluorodecanesulfonic acid (C10)

PFDoS = Perfluorododecanesulfonic acid (C12)

FOSA = Perfluorooctanesulfonamide (C8)

NEtFOSA = N-ethylperfluorooctanesulfonamide (C10)

NMeFOSA = N-methylperfluorooctanesulfonamide (C9)

NMeFOSE = N-methylperfluorooctanesulfonamidoethanol (C11)

NEtFOSE = N-ethylperfluorooctanesulfonamidoethanol (C12)

4:2 FTS = 4:2 fluorotelomer sulfonate (C6)

6:2 FTS = 6:2 fluorotelomer sulfonate (C8)

8:2 FTS = 8:2 fluorotelomer sulfonate (C10)

10:2 FTS = 10:2 fluorotelomer sulfonate (C12)

DONA = 4,8-Dioxa-3H-perfluorononanoic acid (C7)

HFPO-DA = Hexafluoropropylene oxide dimer acid (C6)

9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (C8)

11Cl-PF3OUdS = 11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (C10)

Table 9
 GETS Baseline Groundwater Metals and VOC Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



SDG			5002150141	5002150141	5002150141	5002148951	5002150141	5002148951	5002148951	5002148951	5002148951
Location			PZ-16D	PZ-18D	PZ-22D	PZ-24-47	PZ-3	PZ-47-40	PZ-47-40	PZ-54-47	PZ-56-42
Sample ID			PZ-16D-04112022	PZ-18D-04112022	PZ-22D-04112022	PZ-24-47-04072022	PZ-3-04112022	DUP-02-04082022	PZ-47-40-04082022	PZ-54-47-04072022	PZ-56-42-04072022
Sample Date			4/11/2022	4/11/2022	4/11/2022	4/7/2022	4/11/2022	4/8/2022	4/8/2022	4/7/2022	4/7/2022
Sample Type			N	N	N	N	N	FD	N	N	N
Chemical Name	Unit	Fraction									
Anions											
Ammonia Nitrogen	mg/L	Total	1.1 J	1.1	0.97	<0.20 UB	1.3	1.1	1.4	<0.20 UB	<0.26 UB
Chloride	mg/L	Total	100	14	8.3	1.8	19	160	160	28	12
Nitrate-N	mg/L	Total	<0.20 UJ	<0.20 UJ	<0.20 UJ	<0.20 U	0.14 J	<0.20 U	<0.20 U	<0.20 U	<0.20 U
Nitrite	mg/L	Total	<5.0 UJ	<0.20 UJ	<0.20 UJ	<0.20 U	<2.0 UJ	<10 U	<10 U	<0.20 U	<0.20 U
Sulfate	mg/L	Total	25	14	12	13	47	39	40	17	21
Total Kjeldahl Nitrogen	mg/L	Total	1.1	2.2 J	0.99 J	0.20 J	2.0 J	1.7	6.9	0.56	1.6
Alkalinity	mg/L	Total	340	510	350	150	730	520	520	230	800
Biological Oxygen Demand	mg/L	Dissolved	2.7	<2.0 UJ	<2.0 UJ	<2.0 UJ-	2.7	<2.0 UJ-	2.5 J-	<2.0 UJ-	2.4 J-
Biological Oxygen Demand	mg/L	Total	3	5.6 J	2.0 J	<2.0 UJ-	3.6	3.1 J-	2.6 J-	2.0 J-	2.6 J-
Chemical Oxygen Demand	mg/L	Dissolved	42	85	55	22	89	48	48	140	140
Chemical Oxygen Demand	mg/L	Total	42	92	52	16	94	47	51	18	140
Langelier Index	SU	Total	3.4	3.8	3.9	2.7	4	3.7	3.6	3.1	3.8
pH	pH units	Total	7.9 J	8.9 J	8.7 J	7.4 J-	8.7 J	7.9 J-	7.8 J-	7.7 J-	8.2 J-
Salinity	psu	Total	0.33	0.33	<0.33 U	<0.33 U	0.7	0.7	0.7	<0.33 U	0.7
Total Dissolved Solids	mg/L	Total	720	760	1100	170	890	900	900	220	980
Total Suspended Solids	mg/L	Total	<5.0 U	4.7 J	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	2.0 J	<5.0 U
Metals											
Aluminum	µg/L	Dissolved	<100 U	81 J	48 J	<100 U	75 J	<100 U	<100 U	66 J	110
Aluminum	µg/L	Total	43 J	220	220	420	170	37 J	34 J	70 J	180
Antimony	µg/L	Dissolved	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U
Antimony	µg/L	Total	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U
Arsenic	µg/L	Dissolved	0.61 J	0.78 J	1.5	2.4	2.6	4.3	3.8	2.4	3.4
Arsenic	µg/L	Total	0.80 J	1	1.2	1.7	2.9	4.2	4.3	2.7	2.3
Barium	µg/L	Dissolved	49	20	13	31 J	36	140	140	33	39
Barium	µg/L	Total	48	25	12	25 J	35	130	130	44	41
Beryllium	µg/L	Dissolved	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Beryllium	µg/L	Total	<1.0 U	<1.0 U	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Cadmium	µg/L	Dissolved	<0.50 U	<0.50 U	NA	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Cadmium	µg/L	Total	<0.50 U	<0.50 U	NA	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Calcium	µg/L	Dissolved	47,000	9,500 J	19,000	56,000 J	18,000 J	76,000	75,000	40,000	27,000
Calcium	µg/L	Total	48,000	7,700 J	22,000	46,000 J	13,000 J	73,000	73,000	43,000	27,000
Chromium	µg/L	Dissolved	1.9 J	7.5	4.2 J	1.1 J	5.5	1.7 J	1.7 J	6.3	7.1
Chromium	µg/L	Total	2.2 J	7.9	4.4 J	1.5 J	6	2.0 J	1.9 J	1.5 J	7.7
Cobalt	µg/L	Dissolved	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.40 J	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Cobalt	µg/L	Total	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.41 J	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Copper	µg/L	Dissolved	<2.0 U	0.65 J	<2.0 U	<2.0 U	0.92 J	1.5 J	1.6 J	0.81 J	2.3
Copper	µg/L	Total	<2.0 U	10	4.8	2	6.2	1.4 J	1.7 J	0.82 J	16
Iron	µg/L	Dissolved	1,800	1,600	1,100	NA R	890	1,400	1,400	NA R	2,400
Iron	µg/L	Total	1,900	2,000	1,700	NA R	830	1,300	1,300	NA R	2,600
Lead	µg/L	Dissolved	<0.50 U	<0.50 U	<0.50 U	<0.50 U	0.42 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Lead	µg/L	Total	<0.50 U	1.6	0.76	0.61	1.2	<0.50 U	<0.50 U	<0.50 U	0.43 J
Magnesium	µg/L	Dissolved	19,000	3,400 J	5,500	15,000 J	5,500 J	22,000	22,000	14,000	8,200
Magnesium	µg/L	Total	19,000	2,700 J	6,400	12,000 J	4,500 J	22,000	22,000	14,000	8,300
Manganese	µg/L	Dissolved	55	33	41	210	44 J	34	34	63	52
Manganese	µg/L	Total	57	31	67	190	22 J	35	34	58	52
Mercury	µg/L	Dissolved	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U
Mercury	µg/L	Total	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U
Nickel	µg/L	Dissolved	2	0.63 J	<2.0 U	1.1 J	2.7	2.8	2.8	1.0 J	1.7 J
Nickel	µg/L	Total	2.2	1.2 J	<2.0 U	1.1 J	3.1	2.7	2.8	1.3 J	8.4
Potassium	µg/L	Dissolved	8,900	22,000	13,000 J	1,300	30,000	7,500	7,300	1,400	1,500
Potassium	µg/L	Total	9,400	21,000	9,400 J	1,300	36,000	7,400	7,400	2,800	1,500
Selenium	µg/L	Dissolved	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Selenium	µg/L	Total	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Silver	µg/L	Dissolved	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Silver	µg/L	Total	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Sodium	µg/L	Dissolved	140,000	220,000	NA	NA R	390,000	240,000	240,000	NA R	370,000
Sodium	µg/L	Total	150,000	230,000	NA	NA R	420,000	230,000	240,000	NA R	340,000

Notes on Page 4.

Table 9
 GETS Baseline Groundwater Metals and VOC Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



SDG	5002150141	5002150141	5002150141	5002148951	5002150141	5002148951	5002148951	5002148951	5002148951	
Location	PZ-16D	PZ-18D	PZ-22D	PZ-24-47	PZ-3	PZ-47-40	PZ-47-40	PZ-54-47	PZ-56-42	
Sample ID	PZ-16D-04112022	PZ-18D-04112022	PZ-22D-04112022	PZ-24-47-04072022	PZ-3-04112022	DUP-02-04082022	PZ-47-40-04082022	PZ-54-47-04072022	PZ-56-42-04072022	
Sample Date	4/11/2022	4/11/2022	4/11/2022	4/7/2022	4/11/2022	4/8/2022	4/8/2022	4/7/2022	4/7/2022	
Sample Type	N	N	N	N	N	FD	N	N	N	
Chemical Name	Unit	Fraction								
Metals (continued)										
Thallium	µg/L	Dissolved	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Thallium	µg/L	Total	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Vanadium	µg/L	Dissolved	15	75	39	2.3 J	44	5.7	5.7	30
Vanadium	µg/L	Total	16	83	37	<5.0 U	49	6.6	6.5	3.5 J
Zinc	µg/L	Dissolved	<20 U	<20 U	<20 U	<20 U	13 J	<20 U	<20 U	<20 U
Zinc	µg/L	Total	<20 U	<20 U	<20 U	8.0 J	<20 U	<20 U	<20 U	<20 U
SVOCs										
1,2,4-Trichlorobenzene	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
1,2-Dichlorobenzene	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
1,3-Dichlorobenzene	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
1,4-Dichlorobenzene	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
1-Methylnaphthalene	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
2,2-Oxybis(1-Chloropropane)	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
2,4,5-Trichlorophenol	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
2,4,6-Trichlorophenol	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
2,4-Dichlorophenol	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
2,4-Dimethylphenol	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
2,4-Dinitrophenol	µg/L	N	<16 U	<17 U	<15 UJ	<16 U	<16 U	<17 U	<17 U	<16 U
2,4-Dinitrotoluene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U
2,6-Dinitrotoluene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U
2-Chloronaphthalene	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
2-Chlorophenol	µg/L	N	<4.0 U	<4.1 U	<3.8 UJ	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
2-Methyl-4,6-dinitrophenol	µg/L	N	<16 U	<17 U	<15 UJ	<16 U	<16 U	<17 U	<17 U	<16 U
2-Methylnaphthalene	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
2-Methylphenol	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
2-Nitroaniline	µg/L	N	<4.0 U	<4.1 U	<3.8 UJ	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
2-Nitrophenol	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
3,3-Dichlorobenzidine	µg/L	N	<4.0 U	<4.1 U	<3.8 UJ	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
3-Methylphenol, 4-Methylphenol	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
3-Nitroaniline	µg/L	N	<8.1 U	<8.3 U	<7.6 UJ	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
4-Bromophenyl phenyl ether	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
4-Chloro-3-Methylphenol	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
4-Chlorophenyl phenyl ether	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
4-Nitroaniline	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
4-Nitrophenol	µg/L	N	<16 U	<17 U	<15 UJ	<16 U	<16 U	<17 U	<17 U	<16 U
Acenaphthene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U
Acenaphthylene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U
Anthracene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U
Benz(a)anthracene	µg/L	N	<0.16 U	<0.17 U	<0.15 UJ	<0.16 U	<0.16 U	<0.17 U	<0.17 U	<0.16 U
Benzo(a)pyrene	µg/L	N	<0.16 U	<0.17 U	<0.15 U	<0.16 U	<0.16 U	<0.17 U	<0.17 U	<0.16 U
Benzo(b)fluoranthene	µg/L	N	<0.16 U	<0.17 U	<0.15 UJ	<0.16 U	<0.16 U	<0.17 U	<0.17 U	<0.16 U
Benzo(g,h,i)perylene	µg/L	N	<0.81 U	<0.83 U	<0.76 UJ	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U
Benzo(k)fluoranthene	µg/L	N	<0.16 U	<0.17 U	<0.15 U	<0.16 U	<0.16 U	<0.17 U	<0.17 U	<0.16 U
Benzoic Acid	µg/L	N	<16 U	<17 U	<15 U	<16 U	<16 U	6.6 J	6.5 J	<16 U
Benzyl Alcohol	µg/L	N	<16 U	<17 U	<15 U	<16 U	<16 U	<17 U	<17 U	<16 U
bis(2-Chloroethoxy)methane	µg/L	N	<1.6 U	<1.7 U	<1.5 UJ	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
bis(2-Chloroethyl)ether	µg/L	N	<1.6 U	<1.7 U	<1.5 UJ	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
bis(2-Ethylhexyl)phthalate	µg/L	N	<8.1 U	<8.3 U	<7.6 UJ	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U
Butyl benzyl phthalate	µg/L	N	<1.6 U	<1.7 U	<1.5 UJ	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
Carbazole	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
Chrysene	µg/L	N	<0.16 U	<0.17 U	<0.15 U	<0.16 U	<0.16 U	<0.17 U	<0.17 U	<0.16 U
Dibenz(a,h)anthracene	µg/L	N	<0.24 U	<0.25 U	<0.23 UJ	<0.25 U	<0.24 U	<0.26 U	<0.26 U	<0.25 U
Dibenzofuran	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U
Diethyl phthalate	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
Dimethyl phthalate	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
Di-n-butyl phthalate	µg/L	N	<4.0 U	<4.1 U	<3.8 UJ	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U
Di-n-octyl phthalate	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U

Notes on Page 4.

Table 9
 GETS Baseline Groundwater Metals and VOC Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



SDG	5002150141	5002150141	5002150141	5002148951	5002150141	5002148951	5002148951	5002148951	5002148951	5002148951	
Location	PZ-16D	PZ-18D	PZ-22D	PZ-24-47	PZ-3	PZ-47-40	PZ-47-40	PZ-54-47	PZ-56-42		
Sample ID	PZ-16D-04112022	PZ-18D-04112022	PZ-22D-04112022	PZ-24-47-04072022	PZ-3-04112022	DUP-02-04082022	PZ-47-40-04082022	PZ-54-47-04072022	PZ-56-42-04072022		
Sample Date	4/11/2022	4/11/2022	4/11/2022	4/7/2022	4/11/2022	4/8/2022	4/8/2022	4/7/2022	4/7/2022		
Sample Type	N	N	N	N	N	FD	N	N	N		
Chemical Name	Unit	Fraction									
SVOCs (continued)											
Fluoranthene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U	<0.84 U
Fluorene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U	<0.84 U
Hexachloro-1,3-butadiene	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U	<4.2 U
Hexachlorobenzene	µg/L	N	<0.40 U	<0.41 U	<0.38 U	<0.41 U	<0.41 U	<0.43 U	<0.43 U	<0.41 U	<0.42 U
Hexachlorocyclopentadiene	µg/L	N	<16 U	<17 U	<15 U	<16 U	<16 U	<17 U	<17 U	<16 U	<17 U
Hexachloroethane	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U	<4.2 U
Indeno(1,2,3-cd)pyrene	µg/L	N	<0.16 U	<0.17 U	<0.15 UJ	<0.16 U	<0.16 U	<0.17 U	<0.17 U	<0.16 U	<0.17 U
Isophorone	µg/L	N	<1.6 U	<1.7 U	<1.5 U	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U	<1.7 U
Naphthalene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U	<0.84 U
Nitrobenzene	µg/L	N	<0.81 U	<0.83 U	<0.76 UJ-	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U	<0.84 U
N-Nitrosodi-n-propylamine	µg/L	N	<0.40 U	<0.41 U	<0.38 U	<0.41 U	<0.41 U	<0.43 U	<0.43 U	<0.41 U	<0.42 U
N-Nitrosodiphenylamine	µg/L	N	<1.6 U	<1.7 U	<1.5 UJ-	<1.6 U	<1.6 U	<1.7 U	<1.7 U	<1.6 U	<1.7 U
p-Chloroaniline	µg/L	N	<8.1 U	<8.3 U	<7.6 U	<8.2 U	<8.1 U	<8.6 U	<8.6 U	<8.2 U	<8.4 U
Pentachlorophenol	µg/L	N	<16 U	<17 U	<15 U	<16 U	<16 U	<17 U	<17 U	<16 U	<17 U
Phenanthrene	µg/L	N	<0.81 U	<0.83 U	<0.76 U	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U	<0.84 U
Phenol	µg/L	N	<4.0 U	<4.1 U	<3.8 U	<4.1 U	<4.1 U	<4.3 U	<4.3 U	<4.1 U	<4.2 U
Pyrene	µg/L	N	<0.81 U	<0.83 U	<0.76 UJ-	<0.82 U	<0.81 U	<0.86 U	<0.86 U	<0.82 U	<0.84 U
TOCs											
Dissolved Organic Carbon 2	mg/L	Dissolved	14	28	18	10	29	20	20	43	43
Total Organic Carbon 2	mg/L	Total	13	29	17	10	30	20	20	14	41
VOCs											
1,1,1,2-Tetrachloroethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,1-Trichloroethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2,2-Tetrachloroethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloroethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloropropene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,3-Trichlorobenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,3-Trichloropropane	µg/L	N	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
1,2,4-Trichlorobenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,4-Trimethylbenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromo-3-chloropropane	µg/L	N	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
1,2-Dibromoethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichlorobenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloroethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloropropane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3,5-Trimethylbenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3-Dichlorobenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3-Dichloropropane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,4-Dichlorobenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
2,2-Dichloropropane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
2-Chlorotoluene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
4-Chlorotoluene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Benzene	µg/L	N	0.30 J	41	24	<0.50 U	46	0.96	0.96	0.55	92
Bromobenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromochloromethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromodichloromethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.95 J	<1.0 U
Bromoform	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromomethane	µg/L	N	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U
Carbon Tetrachloride	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CFC-11	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CFC-12	µg/L	N	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U
Chlorobenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chlorodibromomethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroform	µg/L	N	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	13	<2.0 U

Notes on Page 4.

Table 9
 GETS Baseline Groundwater Metals and VOC Results
 GETS Pre-Startup Monitoring Data Package
 Tyco Fire Technology Center, Marinette, Wisconsin



SDG	5002150141	5002150141	5002150141	5002148951	5002150141	5002148951	5002148951	5002148951	5002148951	
Location	PZ-16D	PZ-18D	PZ-22D	PZ-24-47	PZ-3	PZ-47-40	PZ-47-40	PZ-54-47	PZ-56-42	
Sample ID	PZ-16D-04112022	PZ-18D-04112022	PZ-22D-04112022	PZ-24-47-04072022	PZ-3-04112022	DUP-02-04082022	PZ-47-40-04082022	PZ-54-47-04072022	PZ-56-42-04072022	
Sample Date	4/11/2022	4/11/2022	4/11/2022	4/7/2022	4/11/2022	4/8/2022	4/8/2022	4/7/2022	4/7/2022	
Sample Type	N	N	N	N	N	FD	N	N	N	
Chemical Name	Unit	Fraction								
VOCs (continued)										
Chloromethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethene	µg/L	N	2.8	<1.0 U	<1.0 U	<1.0 U	<1.0 U	2.4	2.5	<1.0 U
cis-1,3-Dichloropropene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Cymene (p-Isopropyltoluene)	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dibromomethane	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dichloromethane	µg/L	N	<5.0 U	<5.0 U	<5.0 U	<5.0 UB	<5.0 UB	<5.0 UB	<5.0 UB	<5.0 U
Di-isopropyl ether	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	1	<1.0 U	<1.0 U	<1.0 U
Ethylbenzene	µg/L	N	<0.50 U	6.6	2.8	<0.50 U	3.9	<0.50 U	<0.50 U	<0.50 U
Hexachloro-1,3-butadiene	µg/L	N	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Isopropylbenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl-tert-butylether	µg/L	N	<1.0 U	59	51	<1.0 U	150	7.8	8.2	3.7
Naphthalene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
n-Butylbenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
n-Propylbenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
sec-Butylbenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Styrene (Monomer)	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
tert-Butylbenzene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Tetrachloroethene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Toluene	µg/L	N	<0.50 U	<0.50 U	0.25 J	<0.50 U	0.30 J	<0.50 U	<0.50 U	<0.50 U
Total Xylenes	µg/L	N	<1.0 U	6.9	2.7	<1.0 U	3.4	<1.0 U	<1.0 U	<1.0 U
trans-1,2-Dichloroethene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	1.3	1.3	<1.0 U
trans-1,3-Dichloropropene	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichloroethene	µg/L	N	5.6	<0.50 U	<0.50 U	<0.50 U	<0.50 U	13	14	<0.50 U
Vinyl chloride	µg/L	N	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U

Note:
 <= compound not detected at method detection limit

Acronyms and Abbreviations:

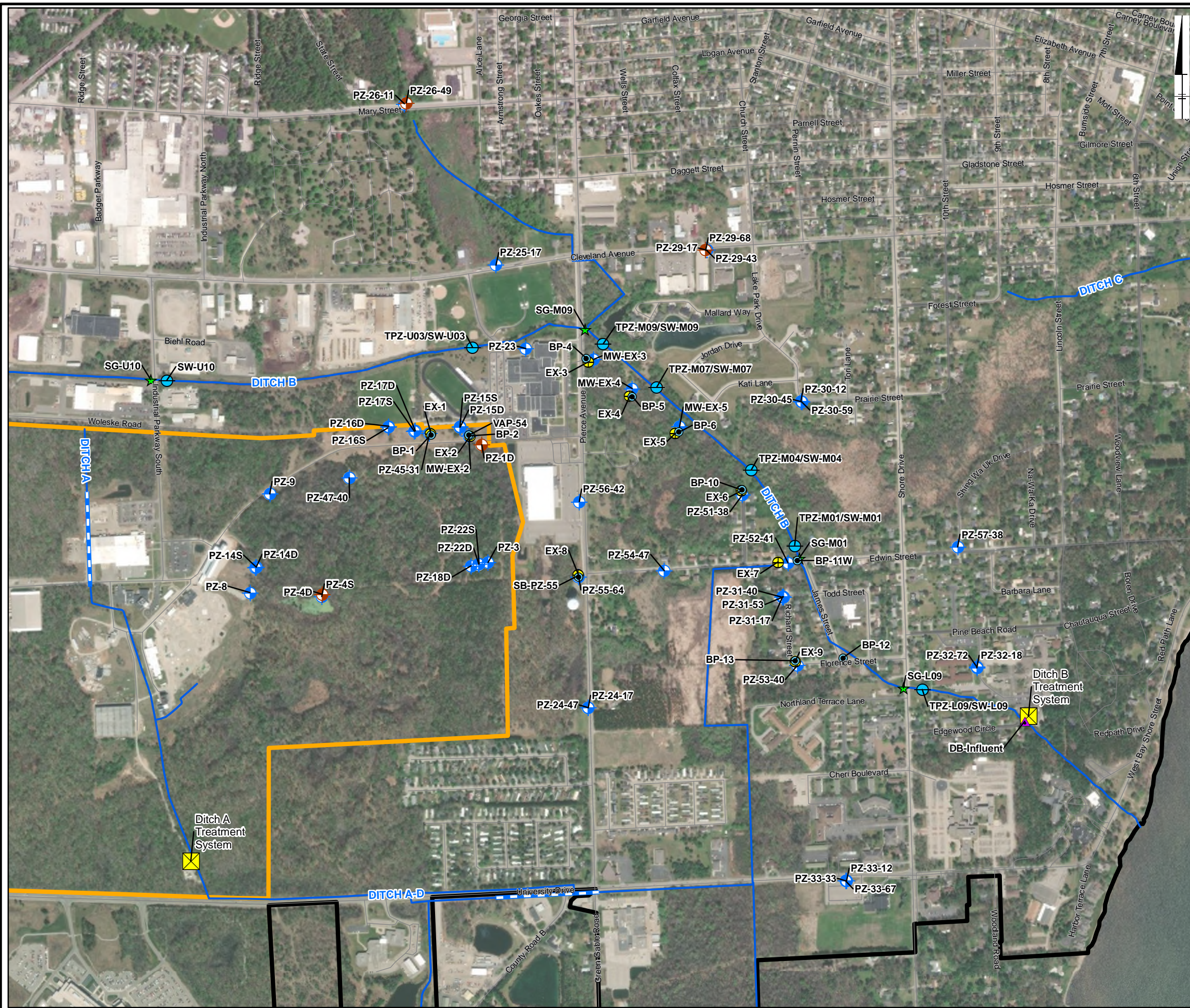
FD = field duplicate
 GETS = groundwater extraction and treatment system
 µg/L = micrograms per liter
 mg/L = milligrams per liter
 N = normal sample
 psu = practical salinity unit
 SU = standard unit
 SVOC = semi-volatile organic compound
 TOC = total organic carbon
 VOC = volatile organic compound

Laboratory Qualifiers:

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 J- = The result is an estimated quantity, but the result may be biased low.
 NA R = Not reportable. Rejected.
 U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 UB = The compound is considered non-detect at the listed value due to associated blank contamination.
 UJ = The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
 UJ- = The analyte was analyzed for, but was not detected. The result is an estimated quantity, but the result may be biased low.

Figures

T:\ENV\TYCO\MXD\FTCGETS_PreStartupMonitoringPackage\F1_LocationMap.mxd 6/29/2022 1:02:27 PM

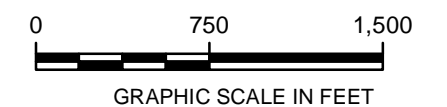


LEGEND:

- OVERBURDEN MONITORING WELL/PIEZOMETER
- BEDROCK MONITORING WELL/PIEZOMETER
- GETS EXTRACTION WELL
- DITCH MINI-PIEZOMETER
- SURFACE WATER SAMPLE
- STAFF GAUGE
- TEMPORARY GROUNDWATER SAMPLING LOCATION
- DITCH TREATMENT LOCATION
- APPROXIMATE MARINETTE CITY BOUNDARY
- APPROXIMATE SITE PROPERTY BOUNDARY
- ROAD
- CULVERT
- DITCH OR STREAM

NOTES:

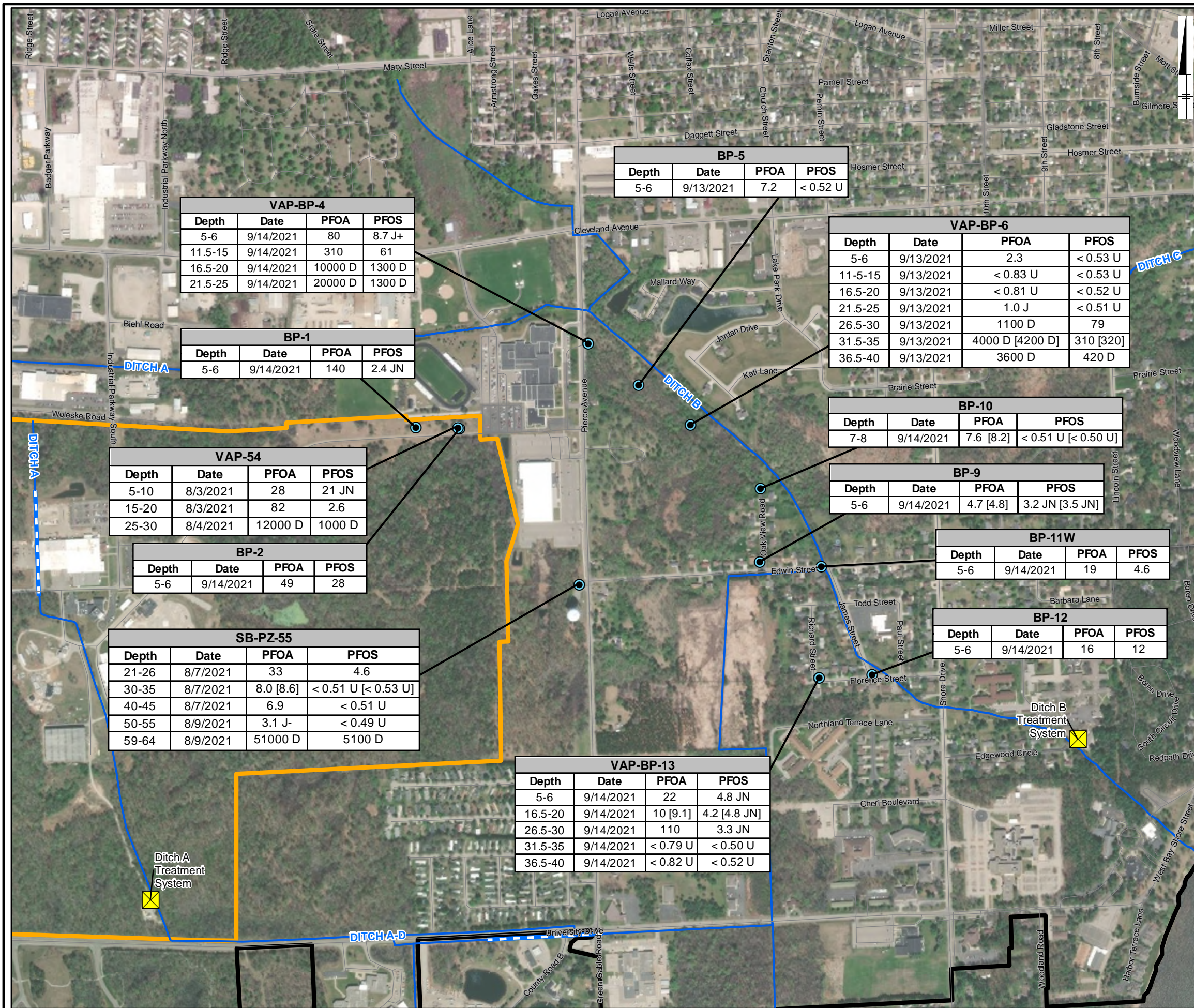
1. ALL DATA COLLECTED FROM TEMPORARY "BP" LOCATIONS WILL BE PROVIDED IN THE REMEDY IMPLEMENTATION REPORT, WHICH WILL BE SUBMITTED UNDER SEPARATE COVER. ONLY BP LOCATIONS WHERE GROUNDWATER SAMPLES WERE COLLECTED ARE INCLUDED ON THIS FIGURE.
2. AERIAL IMAGERY SOURCE: ESTRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.



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GETS PRE-STARTUP MONITORING DATA PACKAGE

LOCATION MAP

FIGURE
1



LEGEND:

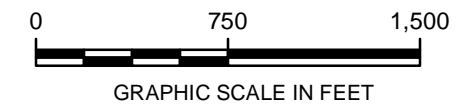
- TEMPORARY GROUNDWATER SAMPLING LOCATION
- DITCH TREATMENT LOCATION
- APPROXIMATE MARINETTE CITY BOUNDARY
- APPROXIMATE SITE PROPERTY BOUNDARY
- ROAD
- CULVERT
- DITCH OR STREAM

NOTES:

1. DEPTHS ARE FEET BELOW GROUND SURFACE.
2. CONCENTRATIONS ARE IN NANOGRAMS PER LITER (ng/L)
3. PFOA = PERFLUOROOCCTANOIC ACID
4. PFOS = PERFLUOROOCCTANESULFONIC ACID
5. [] = FIELD DUPLICATE RESULT
6. BP-4 IS AT THE LOCATION OF VAP-BP-4, BP-6 IS AT THE LOCATION OF VAP-BP-6, AND BP-13 IS AT THE LOCATION OF VAP-BP-13.
7. ALL DATA COLLECTED FROM TEMPORARY "BP" LOCATIONS WILL BE PROVIDED IN THE REMEDY IMPLEMENTATION REPORT, WHICH WILL BE SUBMITTED UNDER SEPARATE COVER. ONLY BP LOCATIONS WHERE GROUNDWATER SAMPLES WERE COLLECTED ARE INCLUDED ON THIS FIGURE.
8. AERIAL IMAGERY SOURCE: ESTRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.

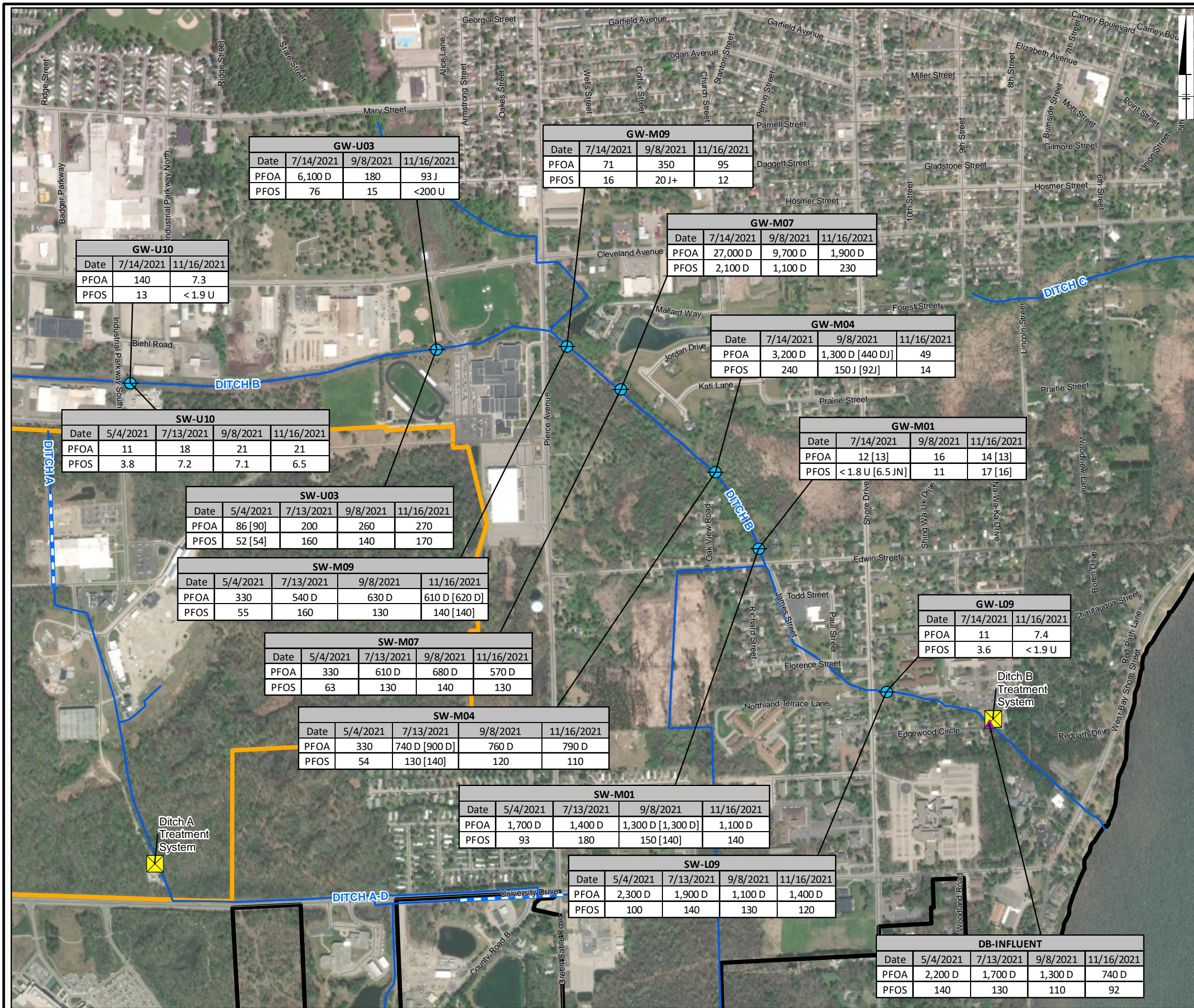
LABORATORY QUALIFIERS:

D: COMPOUND QUANTITATED USING A SECONDARY DILUTION.
 J+: THE RESULT IS AN ESTIMATED QUANTITY, BUT THE RESULT MAY BE BIASED HIGH.
 J-: THE RESULT IS AN ESTIMATED QUANTITY, BUT THE RESULT MAY BE BIASED LOW.
 JN: THE ANALYSIS INDICATES THE PRESENCE OF A COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICATION. THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
 U: THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.



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**TEMPORARY GROUNDWATER SAMPLING
 LOCATION RESULTS - AUGUST
 AND SEPTEMBER 2021**



LEGEND:

- DITCH MINI-PIEZOMETER
- SURFACE WATER SAMPLE
- DITCH TREATMENT LOCATION
- APPROXIMATE MARINETTE CITY BOUNDARY
- APPROXIMATE SITE PROPERTY BOUNDARY
- ROAD
- CULVERT
- DITCH OR STREAM

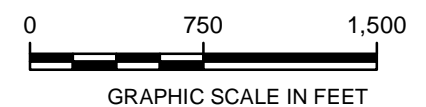
NOTES:

- ALL CONCENTRATIONS ARE IN NANOGRAMS PER LITER (ng/L).
- PFOA = PERFLUOROCTANOIC ACID
- PFOS = PERFLUOROCTANESULFONIC ACID
- [] = FIELD DUPLICATE RESULT

2. AERIAL IMAGERY SOURCE: ESTRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.

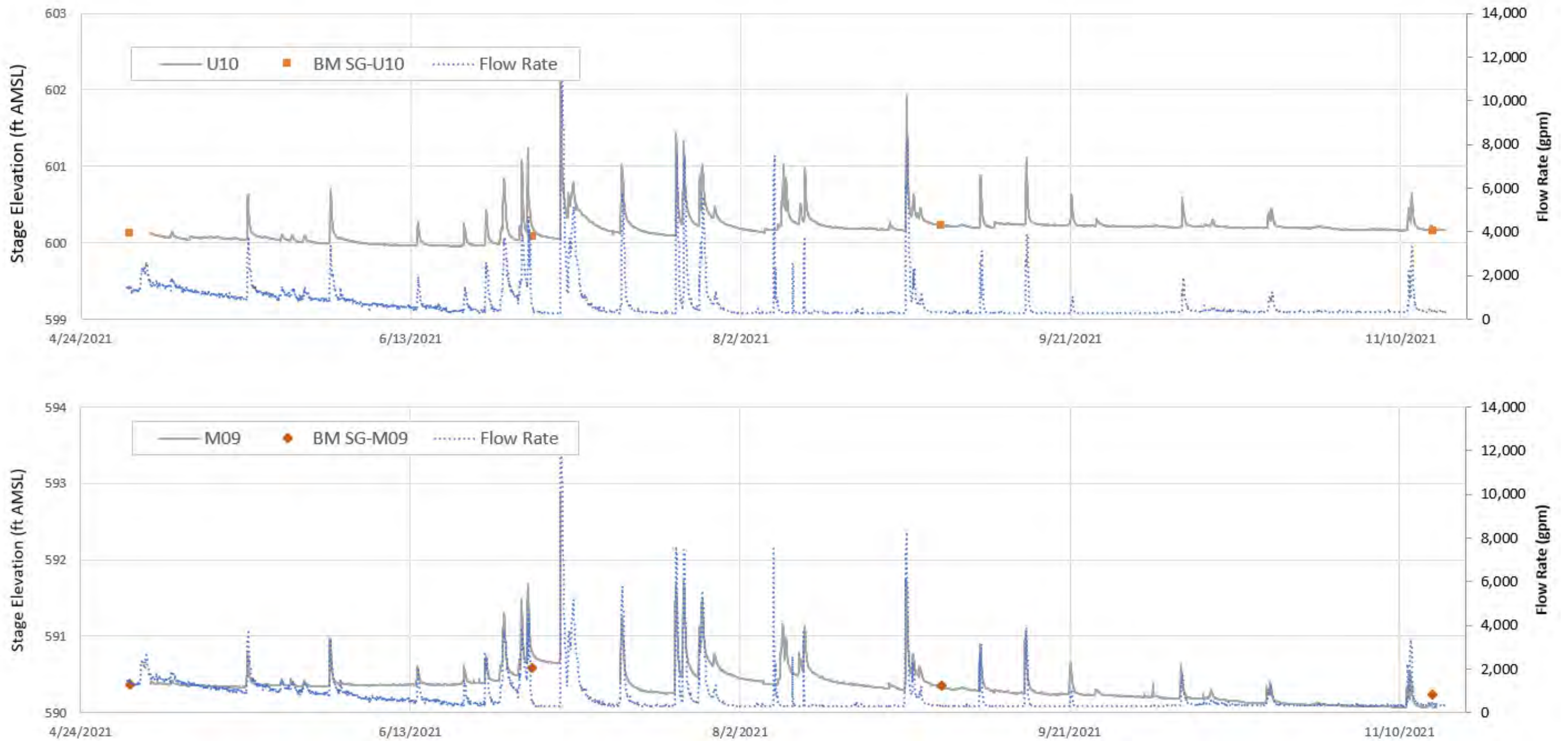
LABORATORY QUALIFIERS:

D: COMPOUND QUANTITATED USING A SECONDARY DILUTION.
 J+: THE RESULT IS AN ESTIMATED QUANTITY, BUT THE RESULT MAY BE BIASED HIGH.
 J: THE RESULT IS AN ESTIMATED QUANTITY.
 JN: THE ANALYSIS INDICATES THE PRESENCE OF A COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICATION. THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.



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**SURFACE WATER AND STREAMBED
 GROUNDWATER RESULTS**



Notes:

1. REFER TO FIGURE 1 OF THIS SUBMITTAL FOR THE LOCATIONS OF U10, SG-U10, M09 AND SG-M09.
2. U10 AND M09 STAGE ELEVATION DATA WERE COLLECTED USING TRANSDUCERS PLACED IN STILLING WELLS NEAR EACH RESPECTIVE SURFACE WATER SAMPLING LOCATION (I.E., U10 MEASUREMENTS WERE COLLECTED NEAR SWU10).
3. LOCATIONS SGU10 AND SGM09 ARE SURVEYED BENCHMARK LOCATIONS WHERE SURFACE WATER LEVELS HAVE BEEN MEASURED MANUALLY USING A WATER LEVEL METER.
4. DITCH B FLOW RATE WAS CALCULATED AT THE DITCH B TREATMENT SYSTEM USING A RATING CURVE CALCULATION PRESENTED IN THE MAY 2022 DITCH B SEMI-ANNUAL OPERATION, MAINTENANCE, AND OPTIMIZATION PROGRESS REPORT #5 (ARCADIS 2022).

Acronyms and Abbreviations:

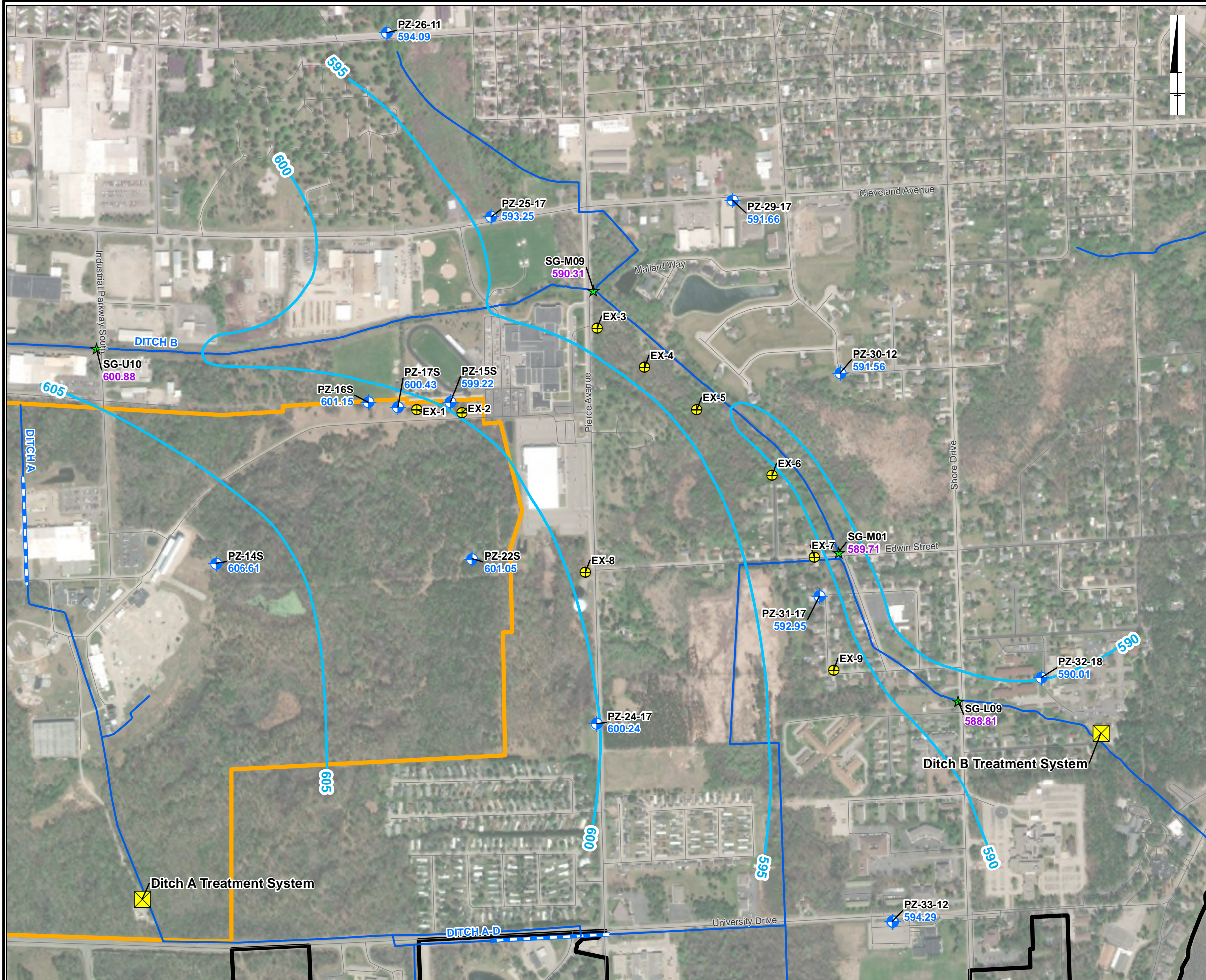
ft AMSL – FEET ABOVE MEAN SEA LEVEL
 gpm – GALLONS PER MINUTE

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**TRANSDUCER HYDROGRAPHS AND
 DITCH B FLOW RATES**



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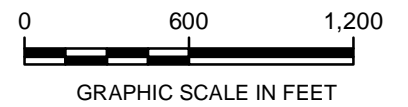


LEGEND:

-  APPROXIMATE MARINETTE CITY BOUNDARY
-  APPROXIMATE SITE PROPERTY BOUNDARY
-  ROAD
-  CULVERT
-  DITCH OR STREAM
-  POTENTIOMETRIC CONTOUR
-  SURFACE WATER TREATMENT SYSTEM
-  OVERBURDEN MONITORING WELL OR PIEZOMETER
-  GETS EXTRACTION WELL
-  STAFF GAUGE
- 591.56 GROUNDWATER LEVEL ELEVATION (FT AMSL)
- 589.71 SURFACE WATER LEVEL ELEVATION (FT AMSL)

NOTES:
 1. WATER LEVELS WERE NOT MEASURED AT THE EXTRACTION WELLS (EX-1 TO EX-9) BUT ARE SHOWN FOR REFERENCE PURPOSES.
 2. AERIAL IMAGERY SOURCE: ESTRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.

ACRONYMS:
 GETS - GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
 FT AMSL - FEET ABOVE MEAN SEA LEVEL

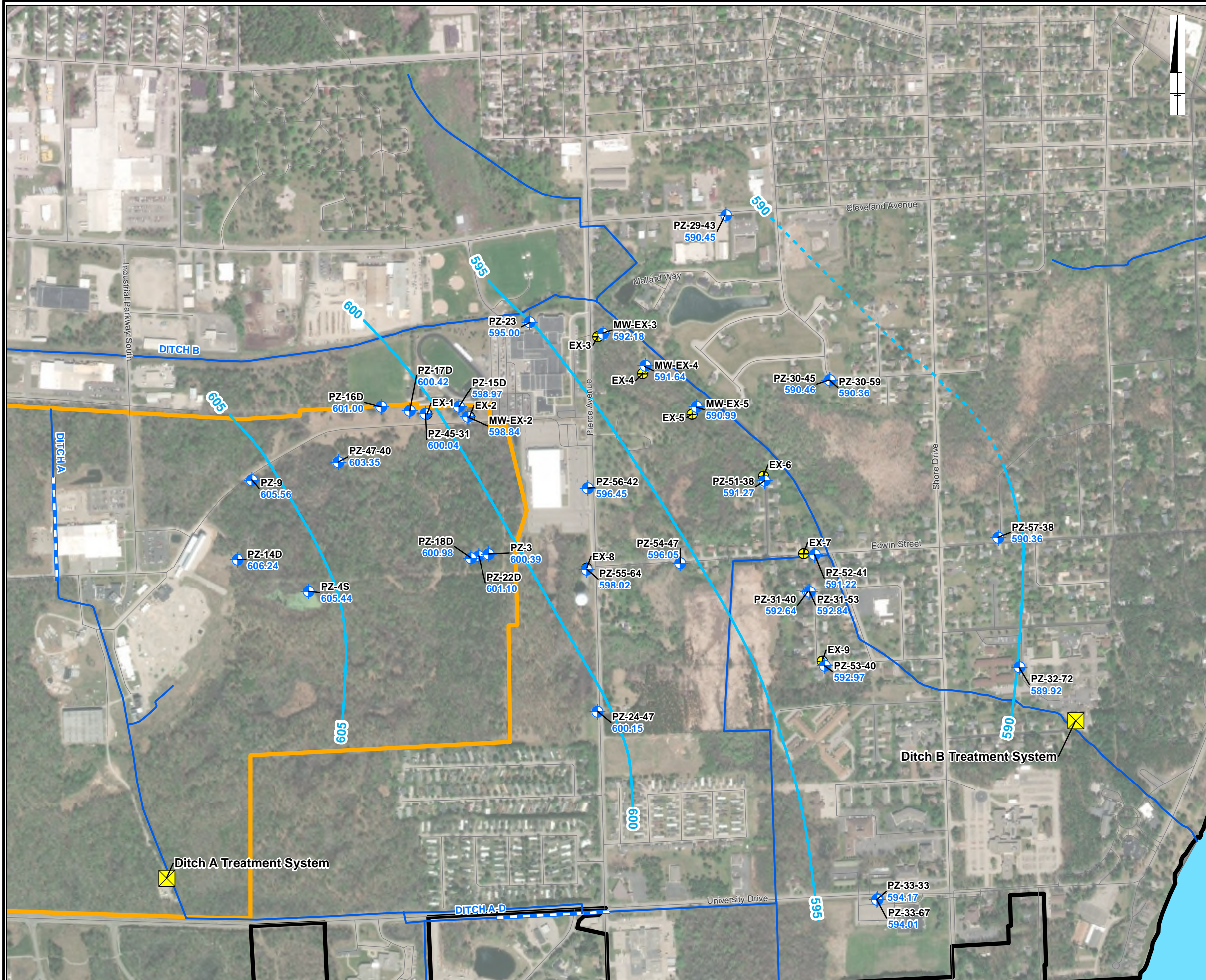


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GETS PRE-STARTUP MONITORING DATA PACKAGE

POTENTIOMETRIC SURFACE IN SHALLOW SAND - APRIL 5, 2022

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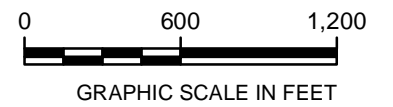


LEGEND:

- APPROXIMATE MARINETTE CITY BOUNDARY
- APPROXIMATE SITE PROPERTY BOUNDARY
- WATERBODY
- ROAD
- CULVERT
- DITCH OR STREAM
- POTENTIOMETRIC CONTOUR (DASHED WHERE INFERRED)
- SURFACE WATER TREATMENT SYSTEM
- OVERBURDEN MONITORING WELL OR PIEZOMETER
- GETS EXTRACTION WELL
- 590.36** GROUNDWATER LEVEL ELEVATION (FT AMSL)

NOTES:
 1. WATER LEVELS WERE NOT MEASURED AT THE EXTRACTION WELLS (EX-1 TO EX-9) BUT ARE SHOWN FOR REFERENCE PURPOSES.
 2. AERIAL IMAGERY SOURCE: ESTRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.

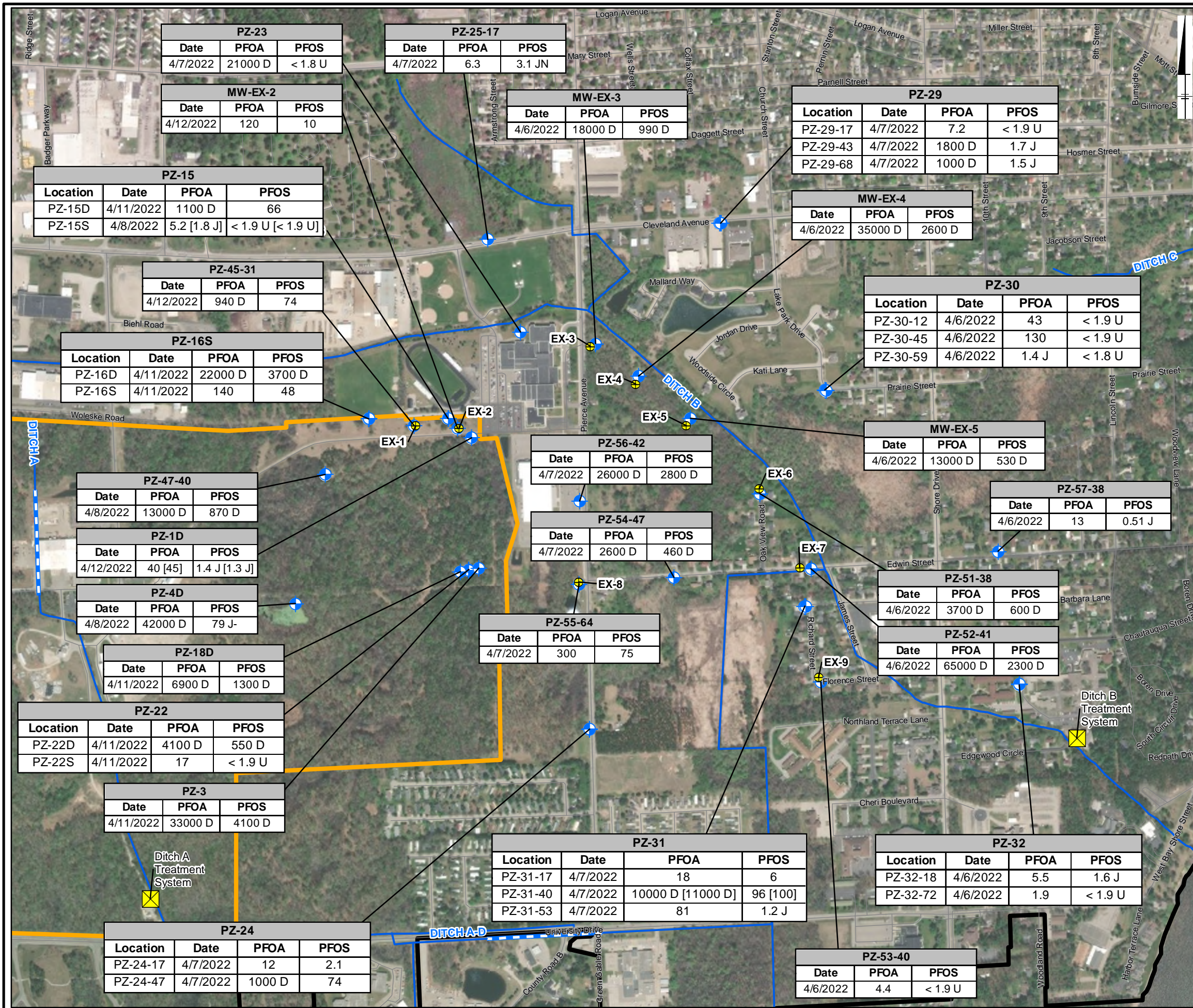
ACRONYMS:
 GETS - GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
 FT AMSL - FEET ABOVE MEAN SEA LEVEL



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 MARINETTE, WISCONSIN

GETS PRE-STARTUP MONITORING DATA PACKAGE

POTENTIOMETRIC SURFACE IN DEEP SAND - APRIL 5, 2022



LEGEND:

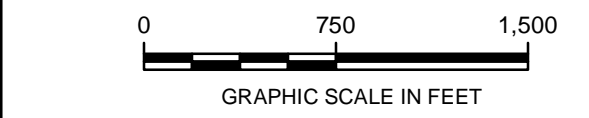
- MONITORING WELL/PIEZOMETER
- GETS EXTRACTION WELL
- DITCH TREATMENT LOCATION
- APPROXIMATE MARINETTE CITY BOUNDARY
- APPROXIMATE SITE PROPERTY BOUNDARY
- ROAD
- CULVERT
- DITCH OR STREAM

NOTES:

- CONCENTRATIONS ARE IN NANOGRAMS PER LITER (ng/L)
- PFOA = PERFLUOROCTANOIC ACID
- PFOS = PERFLUOROCTANESULFONIC ACID
- [] = FIELD DUPLICATE RESULT
- AERIAL IMAGERY SOURCE: ESTRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.

LABORATORY QUALIFIERS:

- D: COMPOUND QUANTITATED USING A SECONDARY DILUTION.
- J: INDICATES AN ESTIMATED VALUE.
- J-: THE RESULT IS AN ESTIMATED QUANTITY, BUT THE RESULT MAY BE BIASED LOW.
- JN: THE ANALYSIS INDICATES THE PRESENCE OF A COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICATION. THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
- U: THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.



TYCO FIRE TECHNOLOGY CENTER
MARINETTE, WISCONSIN
GETS PRE-STARTUP MONITORING DATA PACKAGE

GETS BASELINE GROUNDWATER SAMPLING RESULTS

PZ-23			
Date	PFOA	PFOS	
4/7/2022	21000 D	< 1.8 U	

PZ-25-17			
Date	PFOA	PFOS	
4/7/2022	6.3	3.1 JN	

MW-EX-2			
Date	PFOA	PFOS	
4/12/2022	120	10	

MW-EX-3			
Date	PFOA	PFOS	
4/6/2022	18000 D	990 D	

PZ-29				
Location	Date	PFOA	PFOS	
PZ-29-17	4/7/2022	7.2	< 1.9 U	
PZ-29-43	4/7/2022	1800 D	1.7 J	
PZ-29-68	4/7/2022	1000 D	1.5 J	

MW-EX-4			
Date	PFOA	PFOS	
4/6/2022	35000 D	2600 D	

PZ-15				
Location	Date	PFOA	PFOS	
PZ-15D	4/11/2022	1100 D	66	
PZ-15S	4/8/2022	5.2 [1.8 J]	< 1.9 U	< 1.9 U

PZ-45-31			
Date	PFOA	PFOS	
4/12/2022	940 D	74	

PZ-16S				
Location	Date	PFOA	PFOS	
PZ-16D	4/11/2022	22000 D	3700 D	
PZ-16S	4/11/2022	140	48	

PZ-30				
Location	Date	PFOA	PFOS	
PZ-30-12	4/6/2022	43	< 1.9 U	
PZ-30-45	4/6/2022	130	< 1.9 U	
PZ-30-59	4/6/2022	1.4 J	< 1.8 U	

MW-EX-5			
Date	PFOA	PFOS	
4/6/2022	13000 D	530 D	

PZ-57-38			
Date	PFOA	PFOS	
4/6/2022	13	0.51 J	

PZ-47-40			
Date	PFOA	PFOS	
4/8/2022	13000 D	870 D	

PZ-1D			
Date	PFOA	PFOS	
4/12/2022	40 [45]	1.4 J [1.3 J]	

PZ-4D			
Date	PFOA	PFOS	
4/8/2022	42000 D	79 J-	

PZ-18D			
Date	PFOA	PFOS	
4/11/2022	6900 D	1300 D	

PZ-22				
Location	Date	PFOA	PFOS	
PZ-22D	4/11/2022	4100 D	550 D	
PZ-22S	4/11/2022	17	< 1.9 U	

PZ-3			
Date	PFOA	PFOS	
4/11/2022	33000 D	4100 D	

PZ-56-42			
Date	PFOA	PFOS	
4/7/2022	26000 D	2800 D	

PZ-54-47			
Date	PFOA	PFOS	
4/7/2022	2600 D	460 D	

PZ-55-64			
Date	PFOA	PFOS	
4/7/2022	300	75	

PZ-51-38			
Date	PFOA	PFOS	
4/6/2022	3700 D	600 D	

PZ-52-41			
Date	PFOA	PFOS	
4/6/2022	65000 D	2300 D	

PZ-31				
Location	Date	PFOA	PFOS	
PZ-31-17	4/7/2022	18	6	
PZ-31-40	4/7/2022	10000 D [11000 D]	96 [100]	
PZ-31-53	4/7/2022	81	1.2 J	

PZ-32				
Location	Date	PFOA	PFOS	
PZ-32-18	4/6/2022	5.5	1.6 J	
PZ-32-72	4/6/2022	1.9	< 1.9 U	

PZ-24				
Location	Date	PFOA	PFOS	
PZ-24-17	4/7/2022	12	2.1	
PZ-24-47	4/7/2022	1000 D	74	

PZ-53-40			
Date	PFOA	PFOS	
4/6/2022	4.4	< 1.9 U	

Attachment 1

Soil Boring Logs, Well Construction Logs, and Well Development Logs

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-2
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/05/2021	Drilling End Date 10/06/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name -	Final Static WL Feet MSL	Surface Elevation 601.48 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 463837 E 2579753 SE 1/4 of SW 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Compressive Strength							Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	
Run 1	CB	36/84			0	(0') Loose, brown to gray SAND with SILT (SP-SM); damp, fine-grained, roots (TOPSOIL).	SP-SM									
					0.5	(0.5') Loose, orange brown SAND (SP); damp to wet, fine-grained with trace to little silt.	SP									
Run 2	CB	120/120			5											
					12	(12') Becomes brown to orange brown.										
					16	(16') As above but fine- to medium-grained sand.										
Run 3	CB	120/120			20											
					24	(24') As above but gray to gray brown.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:54:09 -05'00'	Firm Geosyntec Consultants, Inc.
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This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-2		
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/05/2021		Drilling End Date 10/06/2021		
Drilling Method Sonic		WI Unique Well No.		DNR Well ID No.		Well Name -	
Final Static WL Feet MSL		Surface Elevation 601.48 Feet MSL		Borehole Diameter 10 inches			
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 463837 E 2579753 SE 1/4 of SW 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> Feet <input type="checkbox"/> W		
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/Village Marinette	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	
Run 4	CB	60/60			25	moist to wet.	SP										
						(28') As above but tan to gray, wet, trace silt.											
Run 5	CB	36/36			30	(32') Hard, gray, SANDY SILT (ML); damp, trace gravel and cobbles.	ML										
					35	(35') Boring terminated.											

This boring log may be used for MW-EX-2, which was drilled near EX-2.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:54:32 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-3
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/19/2021	Drilling End Date 10/19/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name -	Final Static WL Feet MSL	Surface Elevation 595.13 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 464456 E 2580744 NW 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE					SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)						Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
Run 1	CB	48/84		0	(0') Soft, black PEAT (PT); moist to wet, organic rich peat, wood and plant matter.	PT									
Run 2	CB	120/120		7	(7') Loose, brown to tan SAND (SP); moist, fine to medium grained with trace coarse sand and silt.	SP									
Run 3	CB	120/120		17	(17') As above but wet.										
				22	(22') Hard, gray, SANDY SILT (ML); damp, trace to little clay.	ML									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:54:59 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-3	
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/19/2021		Drilling End Date 10/19/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name -	Final Static WL Feet MSL		Surface Elevation 595.13 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 464456 E 2580744 NW 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38		Civil Town/City/Village Marinette	

SAMPLE					SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)						Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	
				25		ML										

(27') Boring terminated.

This boring log may be used for MW-EX-3, which was drilled near EX-3.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:55:26 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-4		
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/21/2021		Drilling End Date 10/21/2021		
Drilling Method Sonic		Well Name -		Final Static WL Feet MSL		Surface Elevation 594.39 Feet MSL	
Borehole Diameter 10 inches		Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 464207 E, 2581221 NW 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E		Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet	
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/Village Marinette	

SAMPLE					SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)						Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	
Run 1	CB	48/84		0	(0') Soft, black PEAT with SAND (PT); wet, fine to medium sand, with roots and organic matter.	PT										
				5	(2') Loose, brown SAND (SP); moist, fine-grained with trace to little silt, organic material.	SP									Poor recovery due to very soft material	
Run 2	CB	120/120		10	(7') Loose, orange-brown, WELL-GRADED SAND (SW); damp, fine to medium grained with little coarse sand.	SW										
Run 3	CB	120/120		15	(15') Loose, gray, POORLY GRADED SAND (SP); damp, fine-grained.	SP										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:55:48 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-4		
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/21/2021		Drilling End Date 10/21/2021		
Drilling Method Sonic		WI Unique Well No.		DNR Well ID No.		Well Name -	
Final Static WL Feet MSL		Surface Elevation 594.39 Feet MSL		Borehole Diameter 10 inches			
Local Grid Origin <input checked="" type="checkbox"/> State Plane N. 464207 E 2581221 NW 1/4 of SE 1/4 of Section 7. T 30 N. R 24 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet		
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/Village Marinette	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length / Attempt	Recovery (in)	Blow Counts	Compressive Strength							Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD		
Run 4	CB	120/ 120			25		SP										
					30	(29') Dense to very dense, gray, SANDY SILT to SILTY SAND (SM); damp.	SM										
					35												

(37') Boring terminated.







This boring log may be used for MW-EX-4, which was drilled near EX-4.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:56:13 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-5		
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/22/2021		Drilling End Date 10/22/2021		
Drilling Method Sonic		WI Unique Well No.		DNR Well ID No.		Well Name	
Final Static WL Feet MSL		Surface Elevation 593.17 Feet MSL		Borehole Diameter 10 inches			
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 463777 E 2581723 SW 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location ____ Feet <input type="checkbox"/> N ____ Feet <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W		
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/Village Marinette	

SAMPLE					SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Depth (ft)						Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
Run 1	CB	36/84		0	(0') Soft, black PEAT (PT); moist to wet, some sand, with abundant wood debris.	PT									
Run 2	CB	120/120		5	(8') Sand layer from 8-9 feet.										
Run 3	CB	120/120		10											
				15											
				20											
				25											








I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.01 11:56:39 -05'00' Firm **Geosyntec Consultants, Inc.**

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-5		
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/22/2021		Drilling End Date 10/22/2021		
WI Unique Well No.		DNR Well ID No.	Well Name -		Final Static WL Feet MSL		
Surface Elevation 593.17 Feet MSL		Borehole Diameter 10 inches					
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 463777 E 2581723 SW 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W ____ Feet		
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/Village Marinette	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type Length Attempt	Recovery (in)	Blow Counts	Compressive Strength							Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD		
Run 4	CB	120/120			25		PT										
					30	(31') Medium dense, tan SAND (SP); damp, alternating with peat, peat has abundant wood debris layers from 8-12 inches thick.	SP										
					35	(34') Dense, tan SAND (SP); fine-grained, some thin <1 inch thick organic layers.	SP										
Run 5	CB	108/120			37	(37') Fine sand.											
					40												
					41	(41') Soft, black, SANDY PEAT (PT).	PT										
					45	(44') Dense, brown to greenish brown SAND (SP); fine-grained, with organic material.	SP										
Run 6	CB	108/120			47	(47') Dense, brown SAND (SP); fine-grained.	SP										
					50												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:57:47 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-5	
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/22/2021		Drilling End Date 10/22/2021	
WI Unique Well No.		DNR Well ID No.	Well Name -	Final Static WL Feet MSL		Surface Elevation 593.17 Feet MSL
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 463777 E 2581723 SW 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E		Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/Village Marinette

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
					50	(51') Dense, olive green to black SAND with SILT and GRAVEL (SP-SM); moist.	SP									
					55											

(57') Boring terminated

This boring log may be used for MW-EX-5, which was drilled near EX-5.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 11:58:14 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-6
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/13/2021	Drilling End Date 10/13/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name --	Final Static WL Feet MSL	Surface Elevation 594.39 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 463381 E 2582022 SE 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD	
Run 1	CB	84/84			0	(0') Loose, dark brown to brown SAND and SANDY SILT (SP-SM); damp, tree roots.	SP-SM										
Run 2	CB	120/120			7	(7') Loose, gray to brown gray, POORLY GRADED SAND with SILT (SP-SM); moist to wet, fine sand with some silt.	SP-SM										
Run 3	CB	120/120			17	(17') Loose, gray SAND (SP); wet, fine-grained.	SP										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 12:09:20 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other _____

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-6
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/13/2021	Drilling End Date 10/13/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name --	Final Static WL Feet MSL	Surface Elevation 594.39 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 463381 E 2582022 SE 1/4 of SE 1/4 of Section 7, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments		
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value RQD			
Run 4	CB	120/120			25														
						(33') Becomes very fine to fine grained with silty sand.													
						(33.5') Becomes brown to brown gray, fine-grained from 33.5-37 feet.													
Run 5	CB	84/96			40	(40') Loose, light gray SAND with SILT (SP-SM); very fine- to fine-grained sand.	SP-SM												
					45	(45') Boring terminated.													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 12:09:44 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-7	
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/15/2021		Drilling End Date 10/15/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name -	Final Static WL Feet MSL		Surface Elevation Feet MSL 596.09	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 462786 E 2582330 NE 1/4 of NE 1/4 of Section 18, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet	
Facility ID 438005590		County Marinette	County Code 38		Civil Town/City/Village Marinette	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
Run 1	CB	14/84			(0') Dark brown to brown SAND (SP); damp, 6-8" frost (0-7').	SP									Top 7' is sand backfill reworked	
Run 2	CB	120/120			(7') Becomes moist, little gravel and silt.											
					(12') Brown to tan SAND (SP); damp, fine-grained with trace silt.	SP										
Run 3	CB	120/120			(17') As above.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-7	
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/15/2021	Drilling End Date 10/15/2021	Drilling Method Sonic	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static WL Feet MSL	Surface Elevation 596.09 Feet MSL	Borehole Diameter 10 inches	
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 462786 E 2582330 NE 1/4 of NE 1/4 of Section 18, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -	Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette		

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				25		SP										
(27') Boring terminated.																

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm Geosyntec Consultants, Inc.
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This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

PROJECT NAME: <i>Tyco - GETS System</i>		BORING NUMBER/WELL NAME: <i>EX-7R</i>	
DRILLER INFO FIRM: <i>Cascade</i>		GEOSYNTEC REPRESENTATIVE GEOLOGIST: <i>Jim Bannantine</i>	
DRILLER: (LAST NAME, FIRST NAME) <i>Steve Argue</i>		OFFICE: <i>Mequon</i>	
BORING LOCATION: Lat: _____ N _____ E _____ Long: _____		DATE/TIME STARTED: <i>7/7/2022 1225</i>	DATE/TIME FINISHED: <i>7/7/2022 1755</i>
COUNTY: <i>Marinette</i>		SURFACE ELEV.: _____ ft	BOREHOLE DEPTH: <i>50</i> ft
		TOP OF WELL ELEV.: _____ ft	BOREHOLE DIA.: <i>10</i> inches
		DRILLING METHOD: <i>SONIC</i>	
		NE 1/4 OF NE 1/4 OF SECTION <i>18</i> , T <i>30</i> N, R <i>24</i> E/W	
		CITY/TOWNSHIP: <i>Marinette</i>	

Number / Type	Recovery / Attempted	Blow-Counts	Depth in Feet	Soil/Rock Description (Density, Color, USCS Classification, moisture, plasticity, cohesiveness, structure, other)	USCS	Graphic Log	Well Diagram	PID	N-Value	Sample	Analysis	Comments
				<i>10" casing was advanced to 30' below ground surface. Existing 27' length well was removed. Refer to Boring Log for EX-7 for lithology from 0-27 ft bgs. Logging from 30-50</i>								
			<i>30</i>									
		<i>120 / 120</i>	<i>32</i>	<i>Sand, very fine to fine, trace silt, gray, damp</i>								
			<i>34</i>									
			<i>36</i>									
			<i>38</i>									
			<i>40</i>									
		<i>120 / 120</i>	<i>42</i>	<i>Sand, fine to medium with coarse sand, trace gravel, gray, moist</i>								
			<i>44</i>	<i>Sandy silt to silty sand, sand is fine to very fine, gray, moist</i>								
			<i>46</i>									
			<i>48</i>	<i>Sand, fine to very fine with silt, gray, moist to wet</i>								
			<i>50</i>	<i>End of Boring 50'</i>								

Core Sample 1
 Core Sample 2

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other _____

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-8
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/12/2021	Drilling End Date 10/12/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name --	Final Static WL Feet MSL	Surface Elevation 615.82 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 462677 E 2580658 NE 1/4 of NW 1/4 of Section 18, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W ____ Feet ____ Feet
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
Run 1	CB	84/84			0	(0') Loose, brown and dark brown SAND with SILT (SP-SM); with roots and organic matter.	SP-SM									
					0.5	(0.5') Loose, brown to orange brown SAND (SP); damp, fine-grained, with some dark brown (organic rich) zones to approximately 3 feet.	SP									
Run 2	CB	120/120														
Run 3	CB	120/120														

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 12:10:08 -05'00'	Firm Geosyntec Consultants, Inc.
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This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other _____

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-8
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/12/2021	Drilling End Date 10/12/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name --	Final Static WL Feet MSL	Surface Elevation 615.82 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 462677 E 2580658 NE 1/4 of NW 1/4 of Section 18, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat -- Long --		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W ____ Feet ____ Feet
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
Run 4	CB	72/120			25										Driller notes very loose material in Run 4 and notes all material in interval was recovered (even though less than 100% recovery)	
					29'											
Run 5	CB	108/120			39'											
					45'											
Run 6	CB	120/120			45'											
					50'											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 12:10:34 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-9
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/14/2021	Drilling End Date 10/14/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name -	Final Static WL Feet MSL	Surface Elevation 596.22 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 461957 E 2582473 NE 1/4 of NE 1/4 of Section 18, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE				Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES					Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)							Blow Counts	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	
Run 1	CB	36/84			0 (0') Loose, dark brown, SILTY CLAYEY SAND (SC); topsoil. 0.7' (0.7') Loose, tan SAND with GRAVEL (SP); fine-grained sand with coarse sand and gravel. 2.7' (2.7') Loose, dark brown, SANDY SILT (ML); with gravel. 5 (3') Loose, orange tan to tan SAND (SP); damp, fine to very fine-grained with trace to little silt.	SC SP ML SP									
Run 2	CB	120/120													
Run 3	CB	120/120			18' (18') As above but becoming tan.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 12:11:33 -05'00'	Firm Geosyntec Consultants, Inc.
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name GETS Installation			License/Permit/Monitoring No.		Boring Number EX-9
Boring Drilled By (First and Last Name, Firm) Al Sizemore, Cascade Drilling			Drilling Start Date 10/14/2021	Drilling End Date 10/14/2021	Drilling Method Sonic
WI Unique Well No.	DNR Well ID No.	Well Name -	Final Static WL Feet MSL	Surface Elevation 596.22 Feet MSL	Borehole Diameter 10 inches
Local Grid Origin <input checked="" type="checkbox"/> State Plane N, 461957 E 2582473 NE 1/4 of NE 1/4 of Section 18, T 30 N, R 24 E			Boring Location <input type="checkbox"/> Lat - Long -		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Feet Feet
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/Village Marinette	

SAMPLE					Depth (ft)	SOIL/ROCK VISUAL DESCRIPTION	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES						Comments
Sample ID	Sample Type	Length Attempt	Recovery (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	N Value	
Run 4	CB	120/120			25	(27') Becomes fine- to medium-grained sand with trace coarse sand.	SP										
					30	(32') Fine-grained to very fine-grained silty sand seam ~6 inches thick.											
					35	(35') Fine-grained to very fine-grained silty sand seam ~6 inches thick.											
Run 5	CB	84/84			37	(37') Becomes wet, very fine to fine-grained sand with trace to little silt.											
					40	(40') Hard, gray SILT with SAND (ML); wet.	ML										
						(44') Boring terminated.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

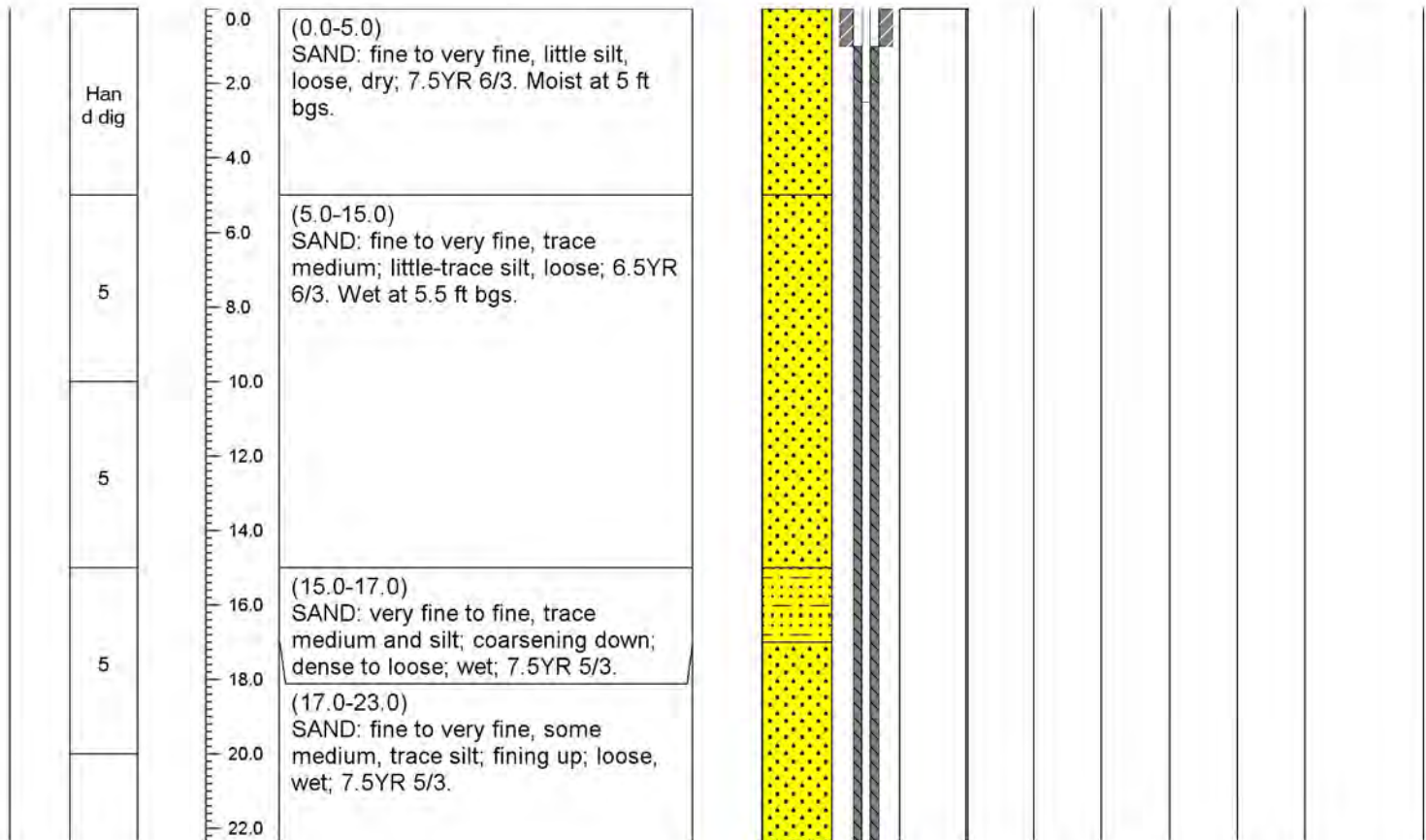
Signature Jim Bannantine	Digitally signed by Jim Bannantine Date: 2022.07.01 12:12:06 -05'00'	Firm Geosyntec Consultants, Inc.
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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-47		Boring Number PZ-47
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8-04-2021	Date Drilling Completed 8-04-2021	Drilling Method Roto-Sonic
WI Unique Well No.	DNR Well ID No.	PZ-47-40	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____ Long _____			Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

AM Wood

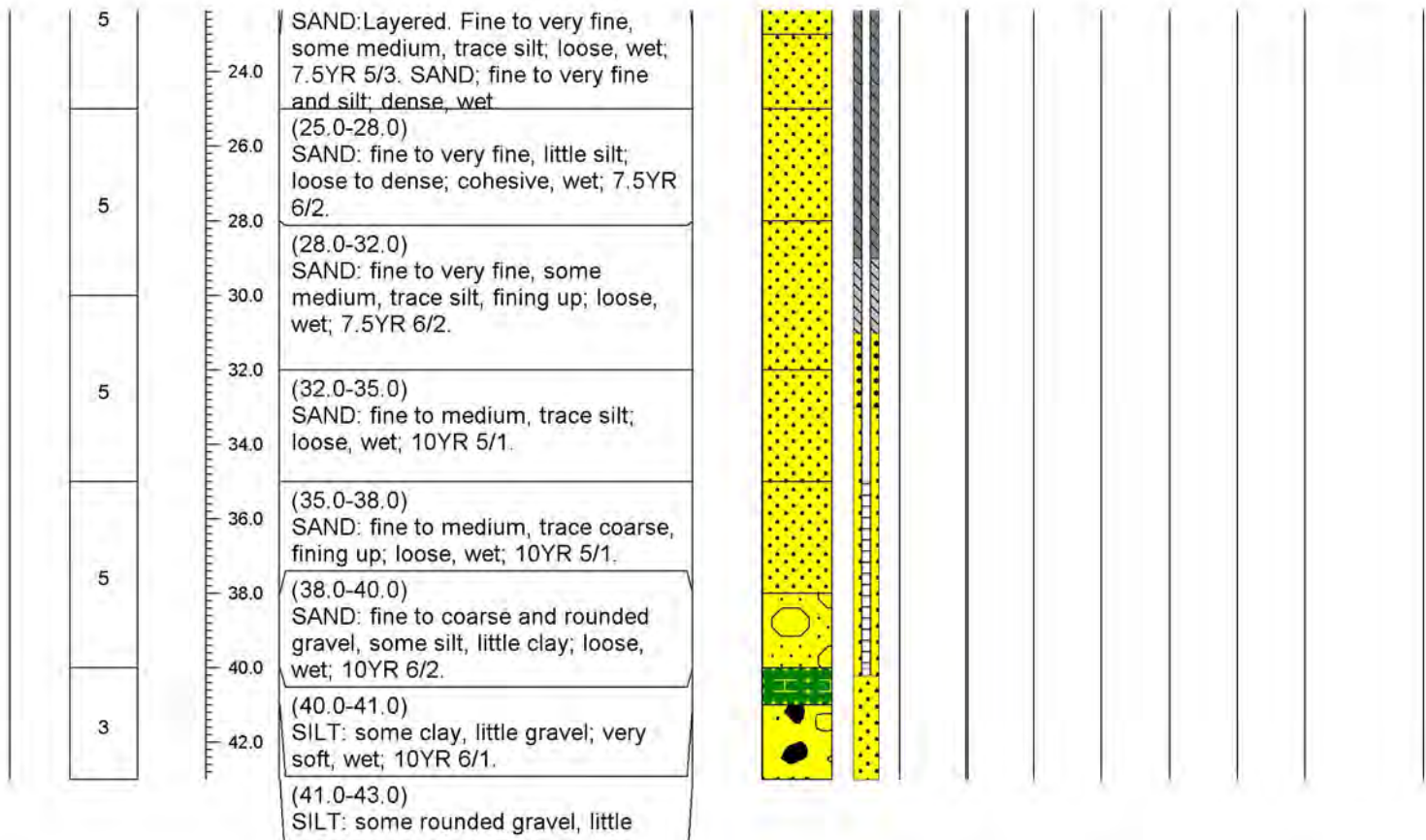
Firm **ARCADIS**

126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-47		Boring Number PZ-47
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8-04-2021	Date Drilling Completed 8-04-2021	Drilling Method Roto-Sonic
WI Unique Well No.	DNR Well ID No.	PZ-47-40	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ E Feet _____ S Feet _____ W		
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

AM Wood

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Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-47		Boring Number PZ-47											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-04-2021	Date Drilling Completed 8-04-2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-47-40	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		

clay; hard, dry. 10YR 6/2. Till.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

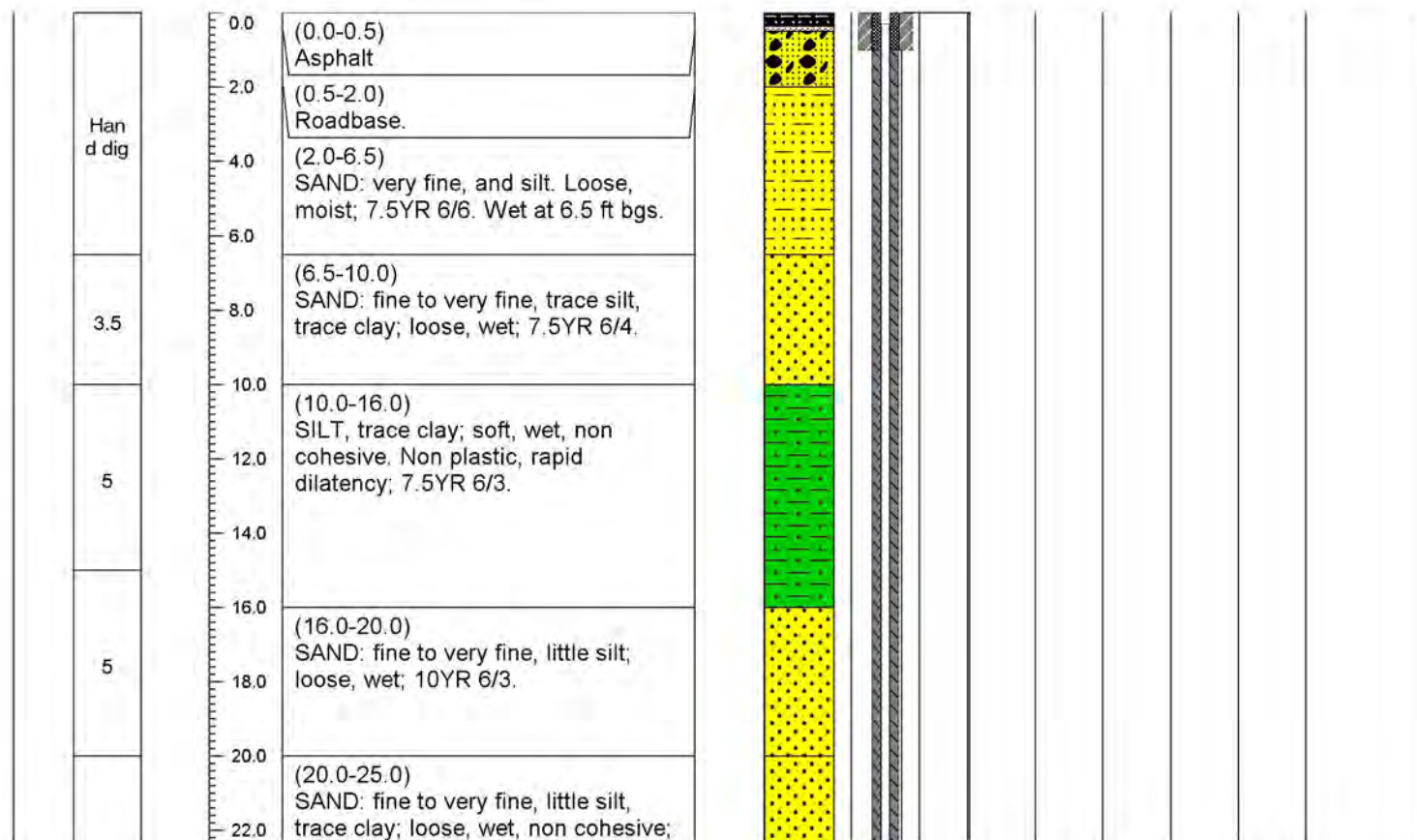
AM Wood

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Milwaukee, WI 53202

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-51		Boring Number PZ-51											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8/19/2021	Date Drilling Completed 8/19/2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-51-38	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

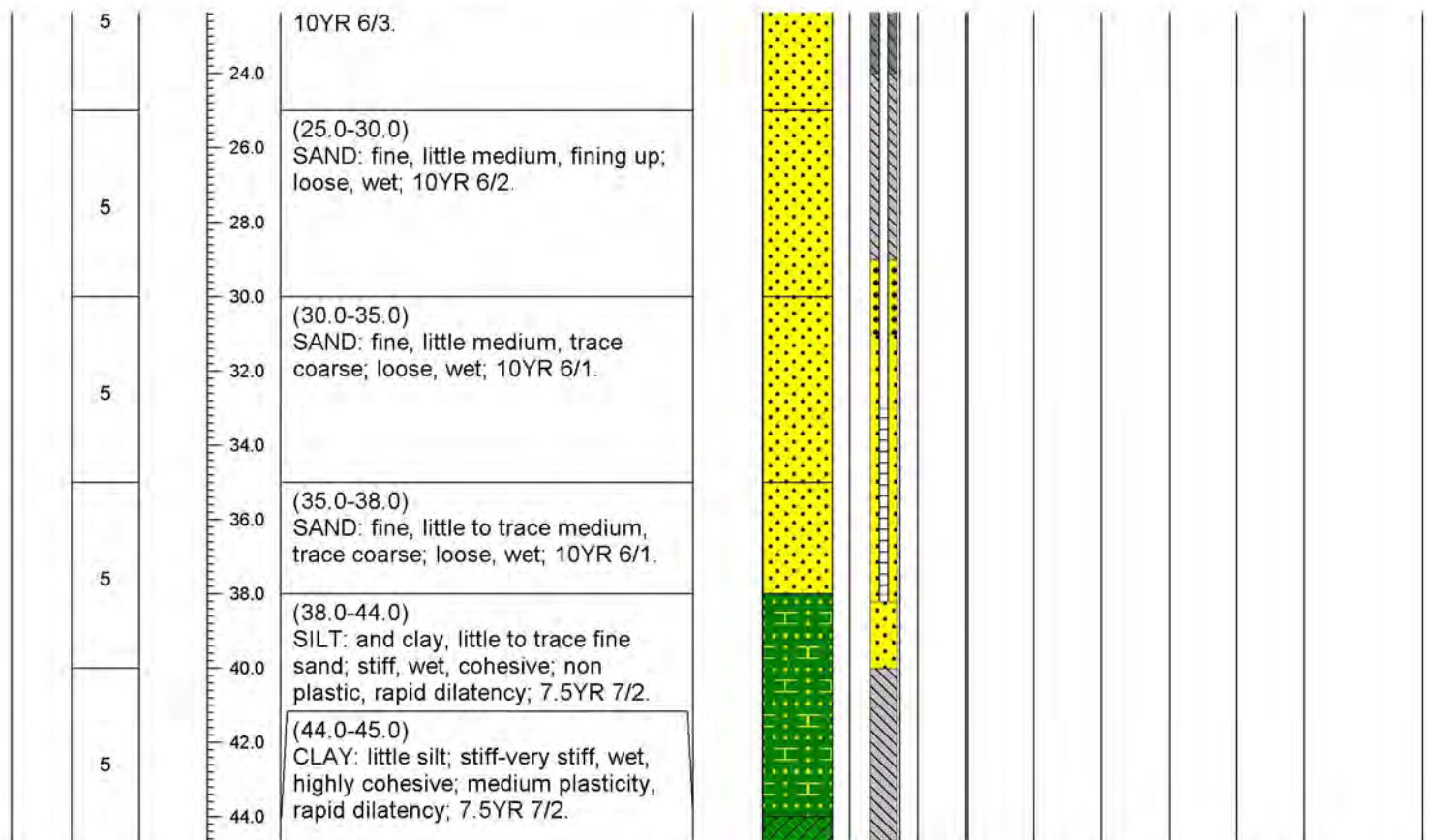
AM Wood

Firm **ARCADIS**

126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-51		Boring Number PZ-51											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8/19/2021	Date Drilling Completed 8/19/2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-51-38	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

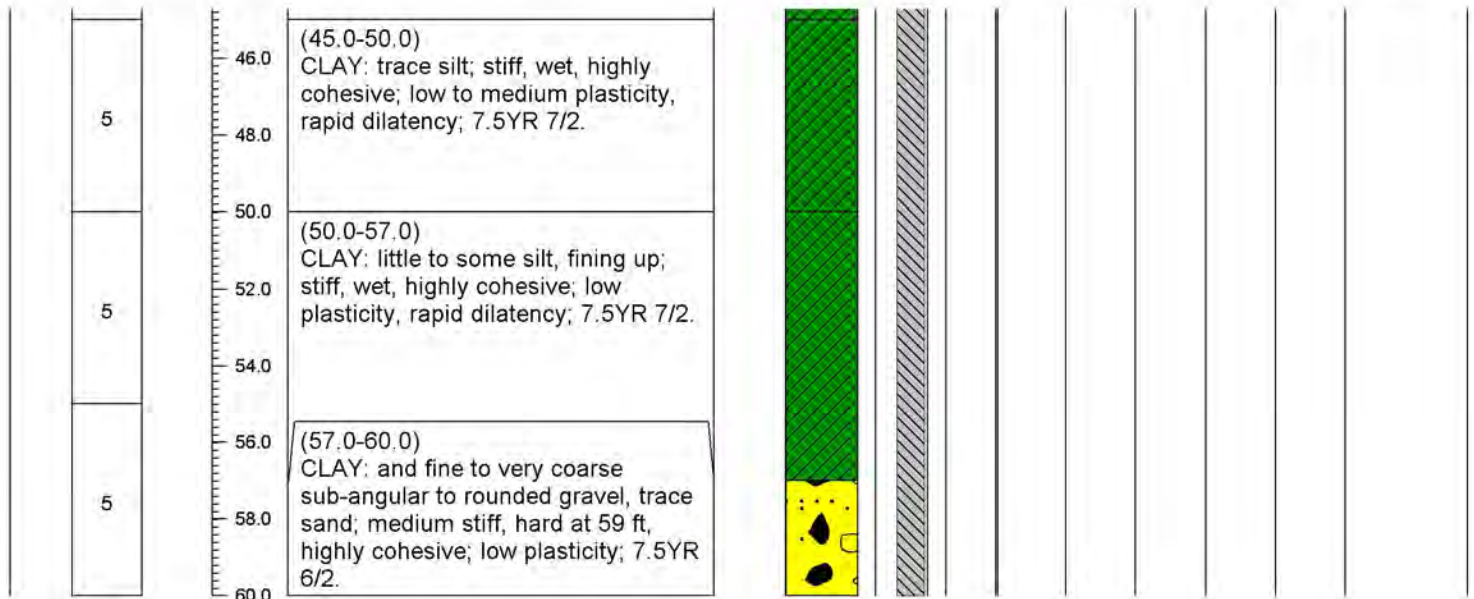
AM Wood

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Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-51			Boring Number PZ-51									
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8/19/2021		Date Drilling Completed 8/19/2021		Drilling Method Roto-Sonic								
WI Unique Well No.	DNR Well ID No. PZ-51-38		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 6 inches								
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>					Local Grid Location										
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R			Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W										
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/or Village Marinette									
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

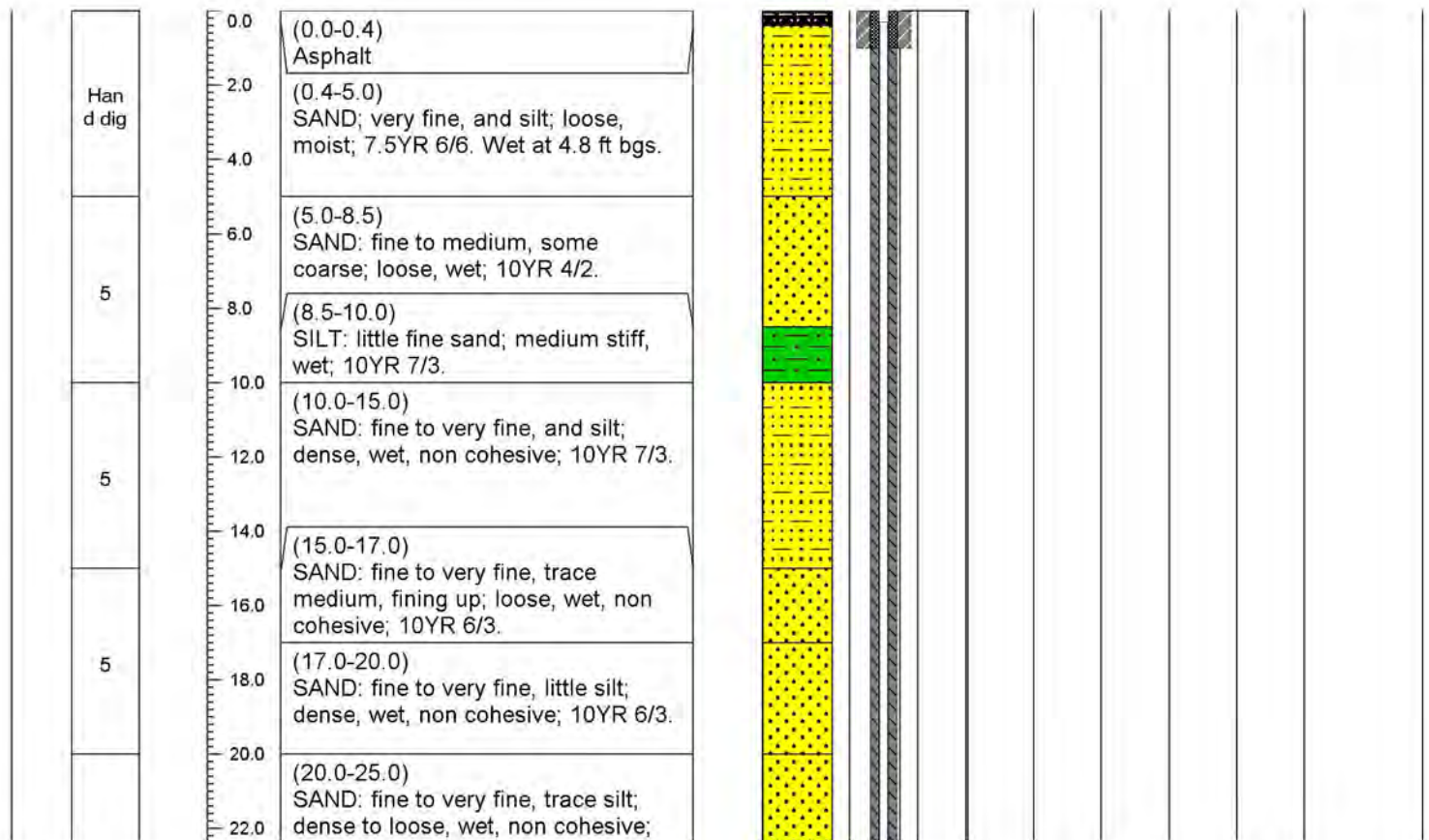
AM Wood

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Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-52			Boring Number PZ-52								
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8/17/2021		Date Drilling Completed 8/17/2021		Drilling Method Roto-Sonic							
WI Unique Well No.		DNR Well ID No. PZ-52-41		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 6 inches						
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>						Local Grid Location								
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ Long _____			Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Feet <input type="checkbox"/> W						
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/or Village Marinette								
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties				RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200	



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

AM Wood

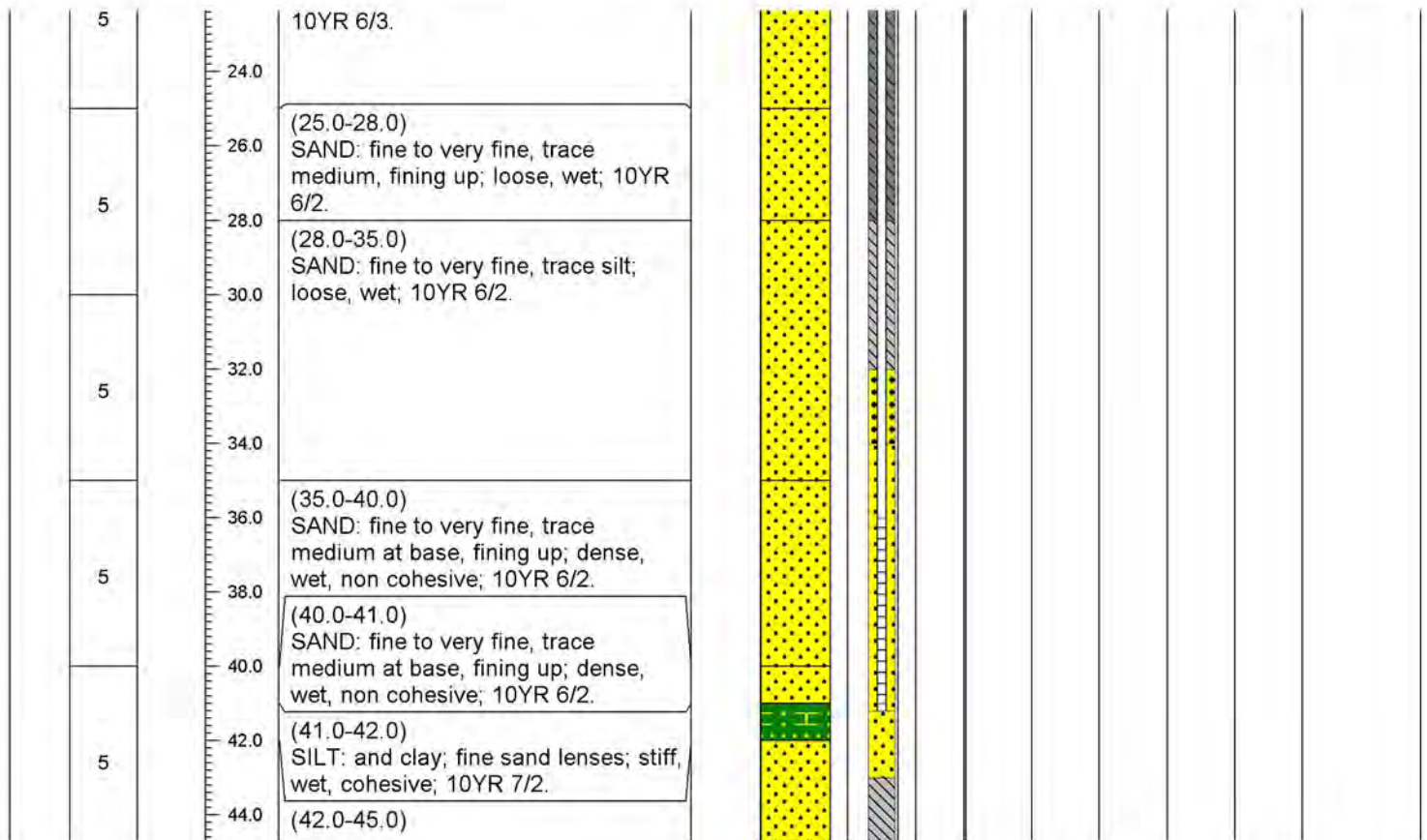
Firm **ARCADIS**

126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-52		Boring Number PZ-52	
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8/17/2021	Date Drilling Completed 8/17/2021	Drilling Method Roto-Sonic	
WI Unique Well No.	DNR Well ID No. PZ-52-41	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Sample Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

AM Wood

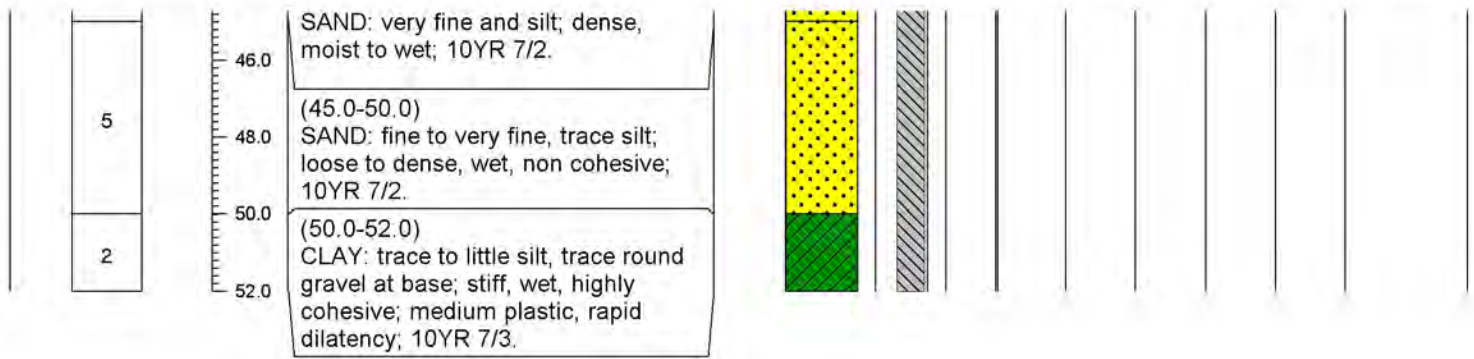
Firm

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126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-52		Boring Number PZ-52	
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8/17/2021	Date Drilling Completed 8/17/2021	Drilling Method Roto-Sonic	
WI Unique Well No.	DNR Well ID No. PZ-52-41	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Sample Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

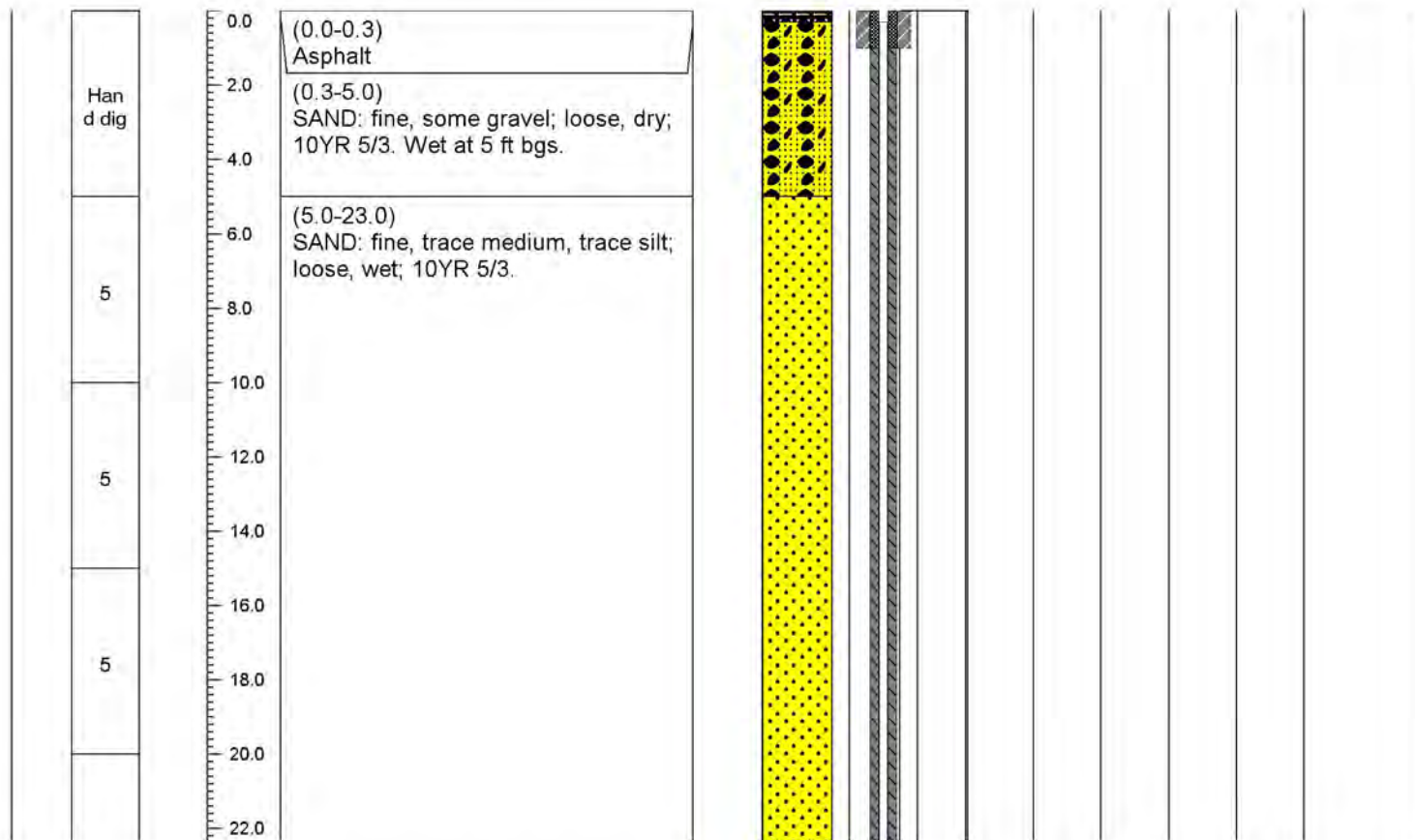
AM Wood

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126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-53		Boring Number PZ-53											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8/18/2021	Date Drilling Completed 8/18/2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-53-40	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

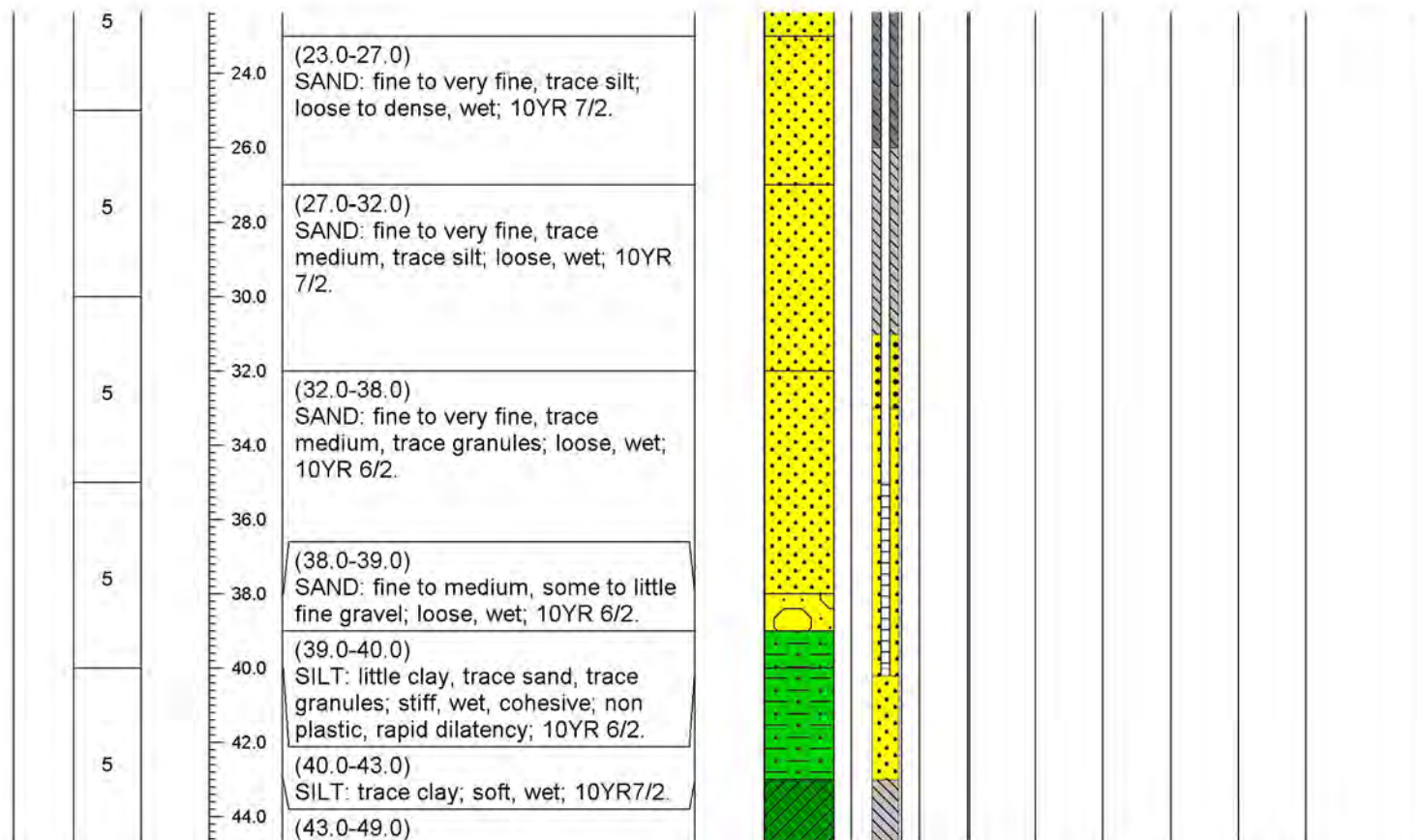
AM Wood

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126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-53			Boring Number PZ-53									
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8/18/2021		Date Drilling Completed 8/18/2021		Drilling Method Roto-Sonic								
WI Unique Well No.	DNR Well ID No.	PZ-53-40	Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 6 inches								
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>					Local Grid Location										
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W										
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/or Village Marinette									
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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Signature

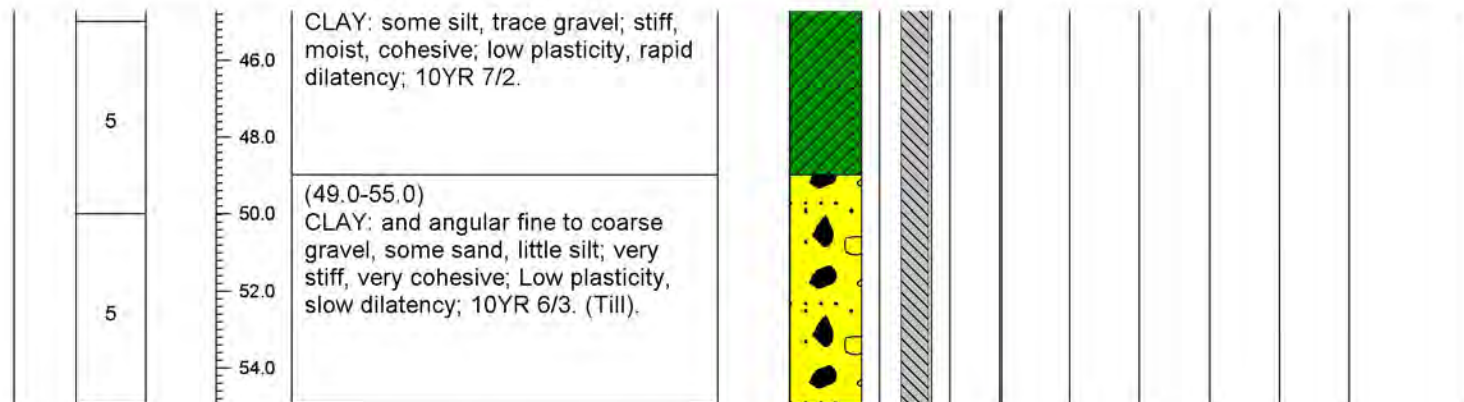
AM Wood

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126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-53			Boring Number PZ-53									
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8/18/2021		Date Drilling Completed 8/18/2021		Drilling Method Roto-Sonic								
WI Unique Well No.	DNR Well ID No. PZ-53-40		Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 6 inches								
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>					Local Grid Location										
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____ Long			Lat _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Feet <input type="checkbox"/> W								
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/or Village Marinette									
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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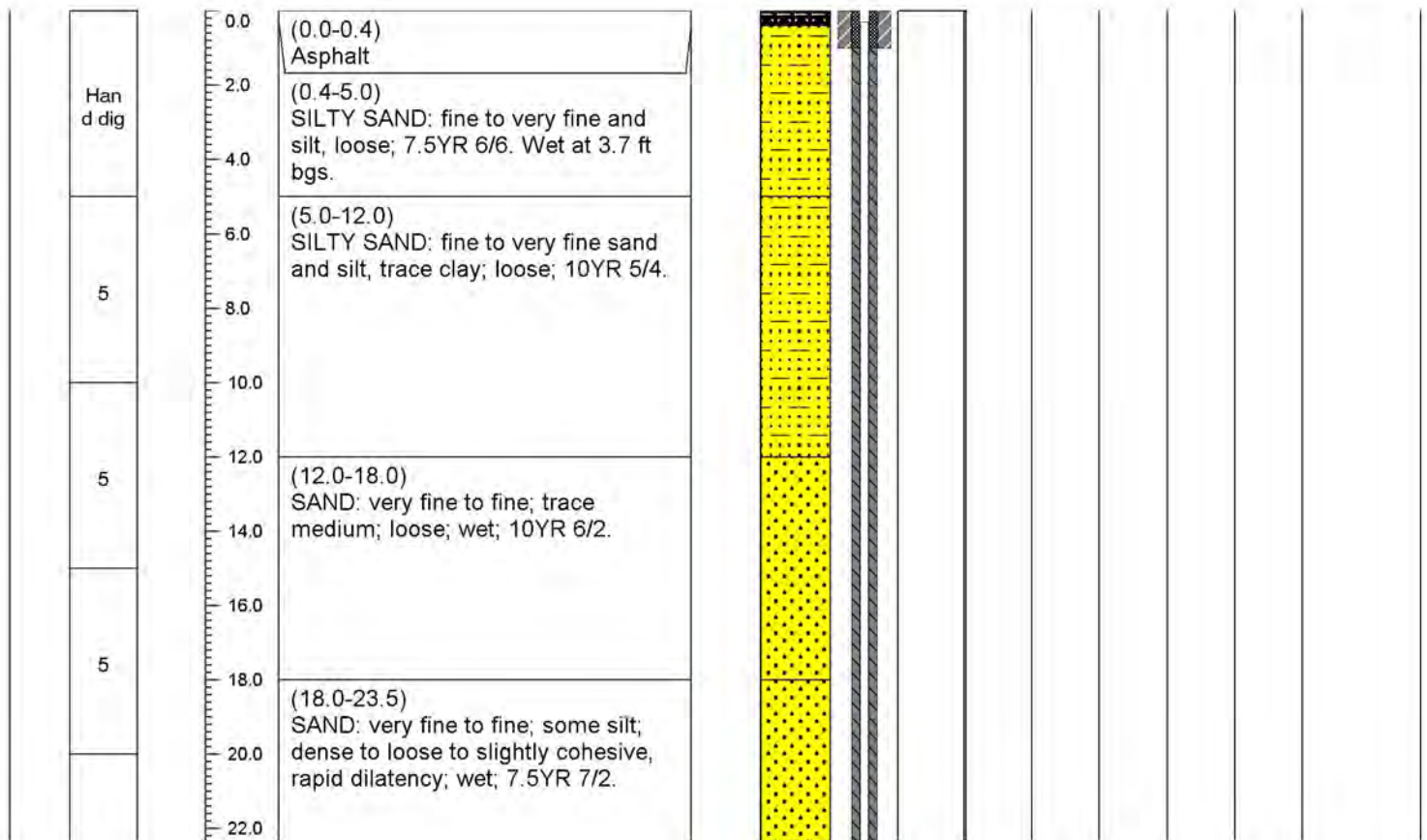
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Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-54		Boring Number PZ-54
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8-10-2021	Date Drilling Completed 8-10-2021	Drilling Method Roto-Sonic
WI Unique Well No.	DNR Well ID No.	PZ-54-47	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ Long _____ Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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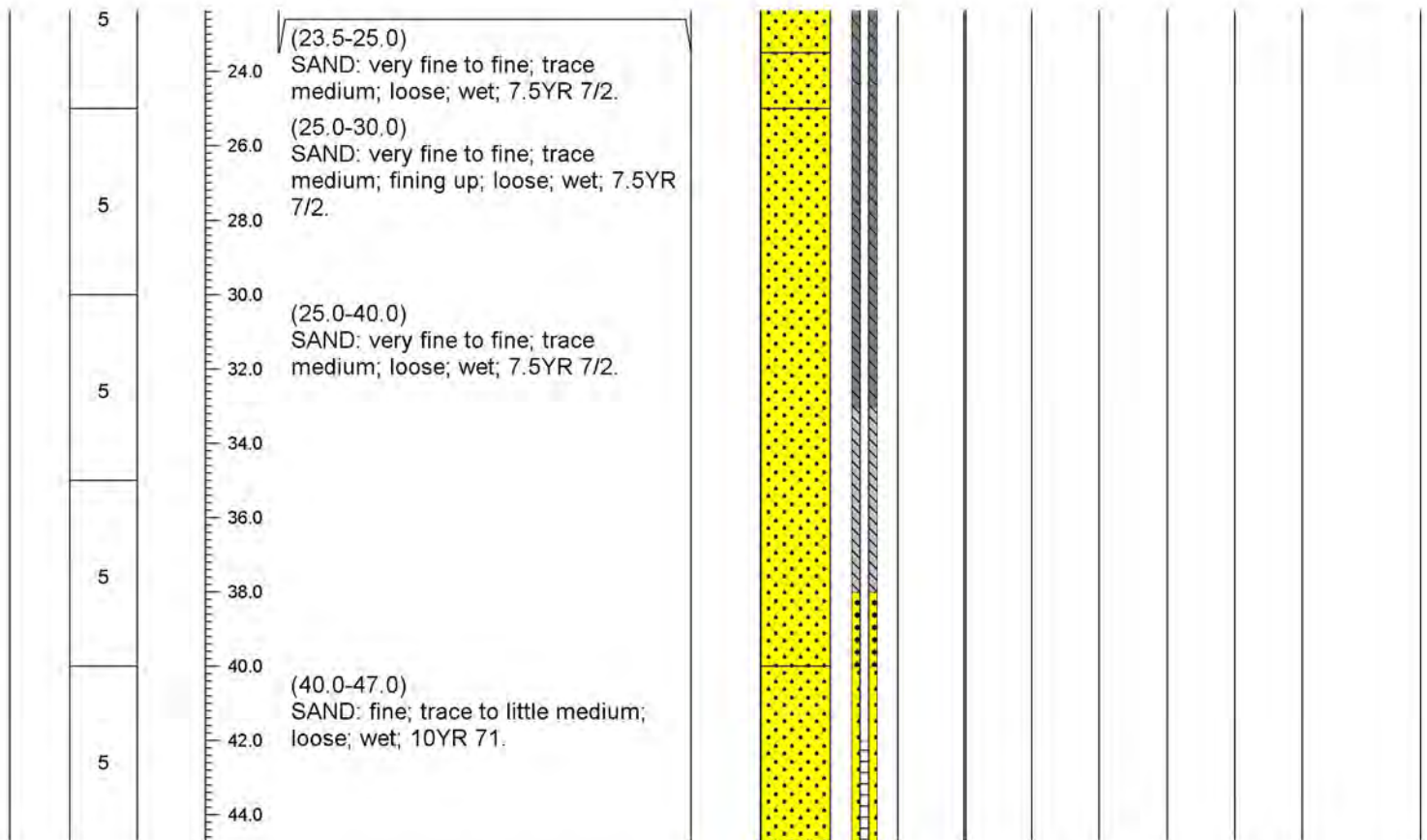
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-54			Boring Number PZ-54									
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8-10-2021		Date Drilling Completed 8-10-2021		Drilling Method Roto-Sonic								
WI Unique Well No.	DNR Well ID No.	PZ-54-47	Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 6 inches								
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>					Local Grid Location										
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W										
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/or Village Marinette									
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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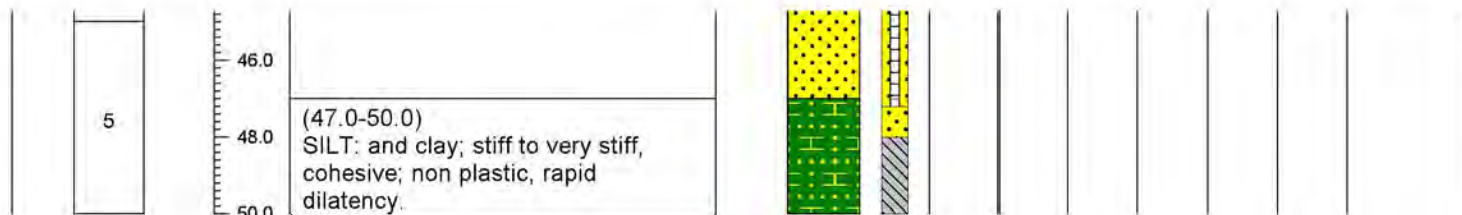
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-54		Boring Number PZ-54											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-10-2021	Date Drilling Completed 8-10-2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-54-47	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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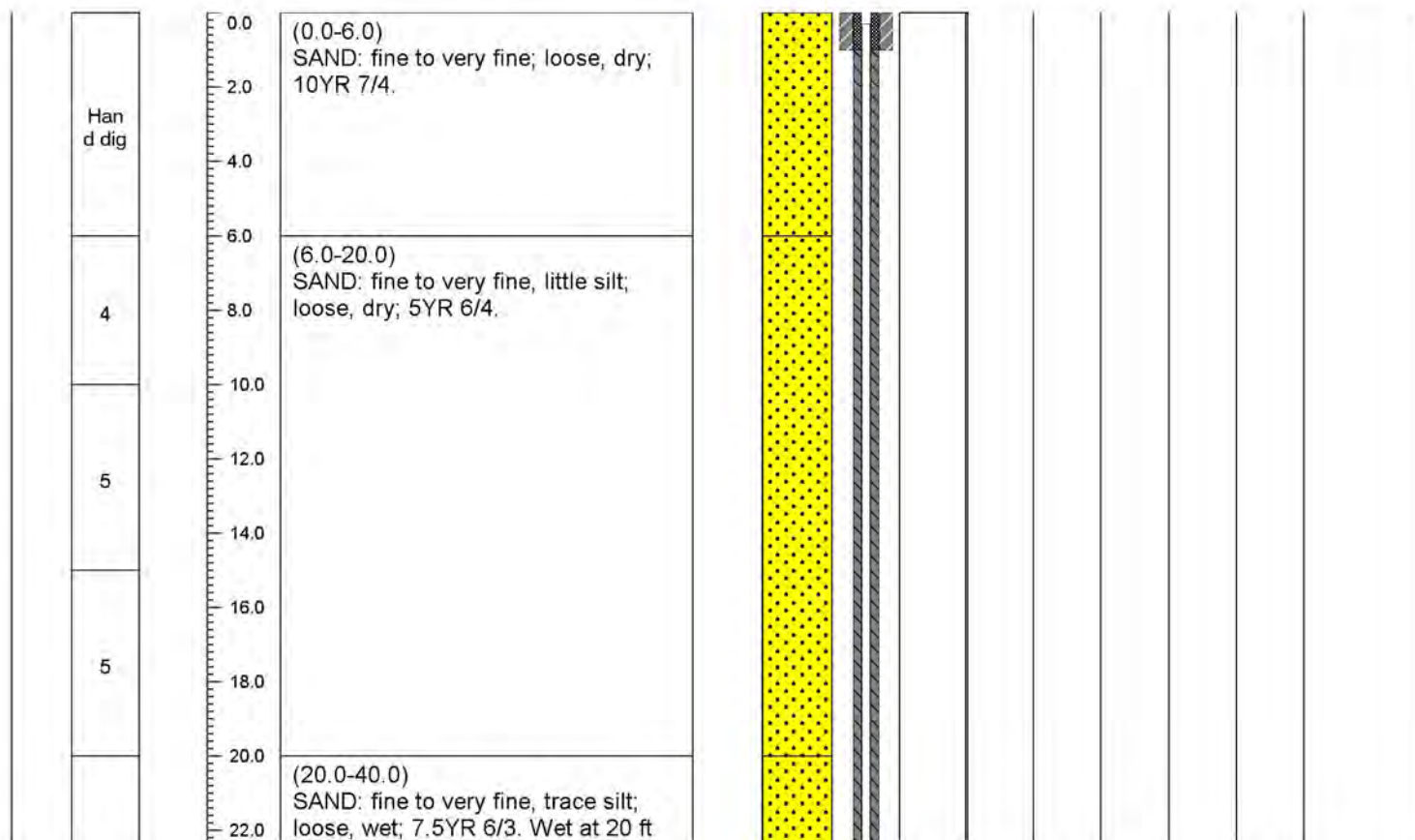
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-55		Boring Number PZ-55											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8/07/2021	Date Drilling Completed 8/07/2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-55-64	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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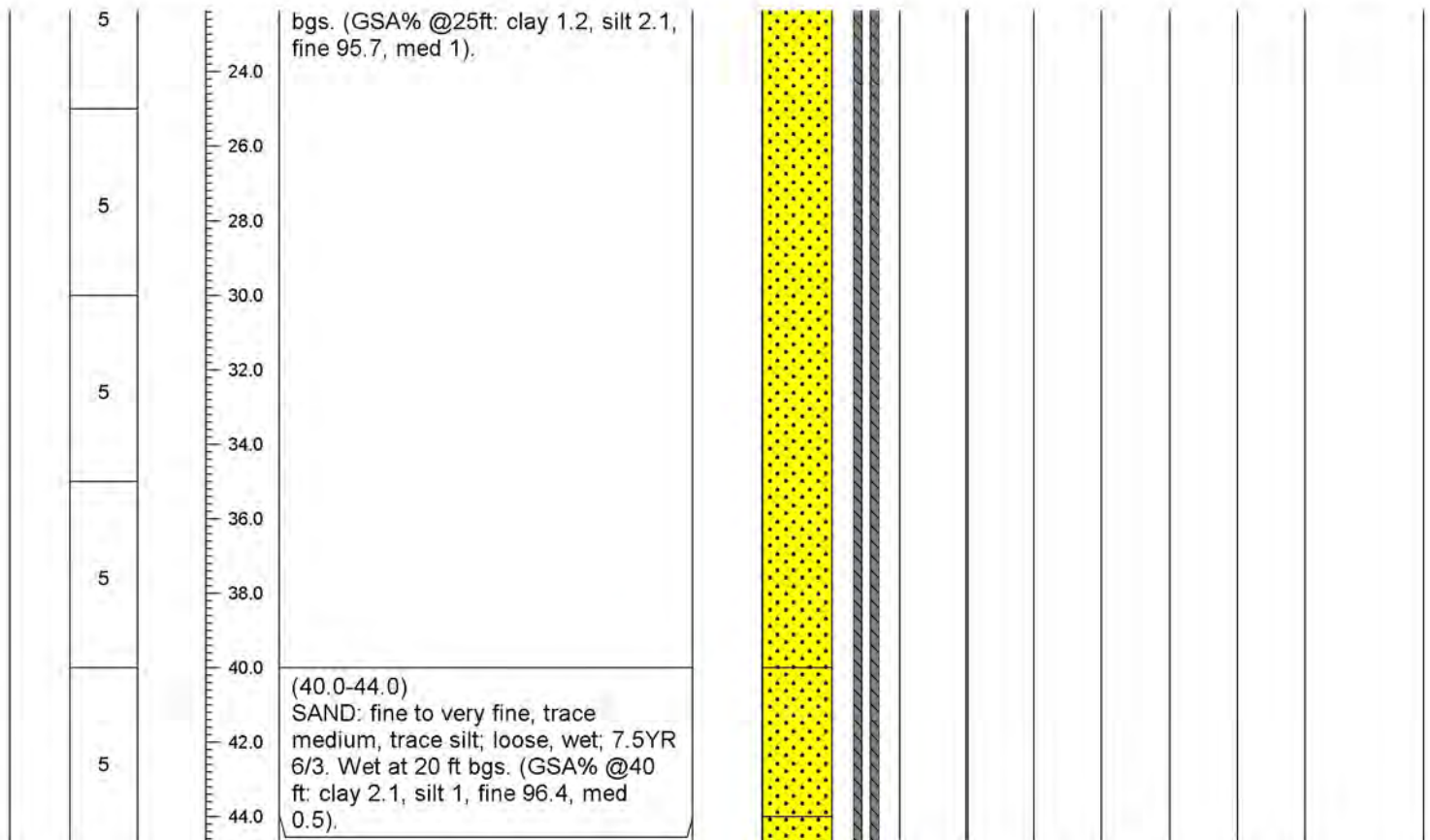
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-55		Boring Number PZ-55	
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8/07/2021		Date Drilling Completed 8/07/2021	
WI Unique Well No.		DNR Well ID No. PZ-55-64	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location			
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____ Long _____			Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette		

Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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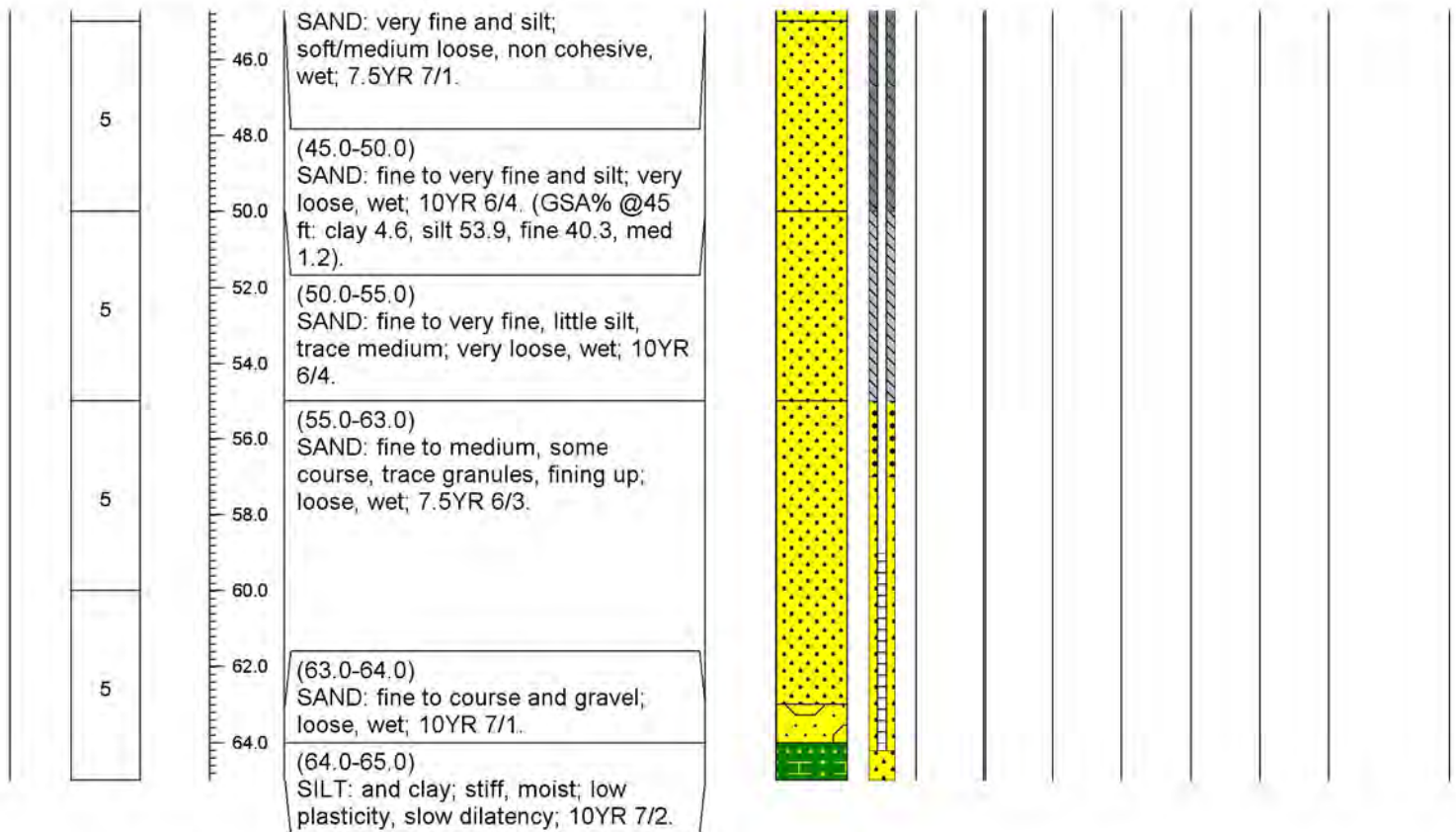
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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-55		Boring Number PZ-55	
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8/07/2021	Date Drilling Completed 8/07/2021	Drilling Method Roto-Sonic	
WI Unique Well No.	DNR Well ID No. PZ-55-64	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Sample Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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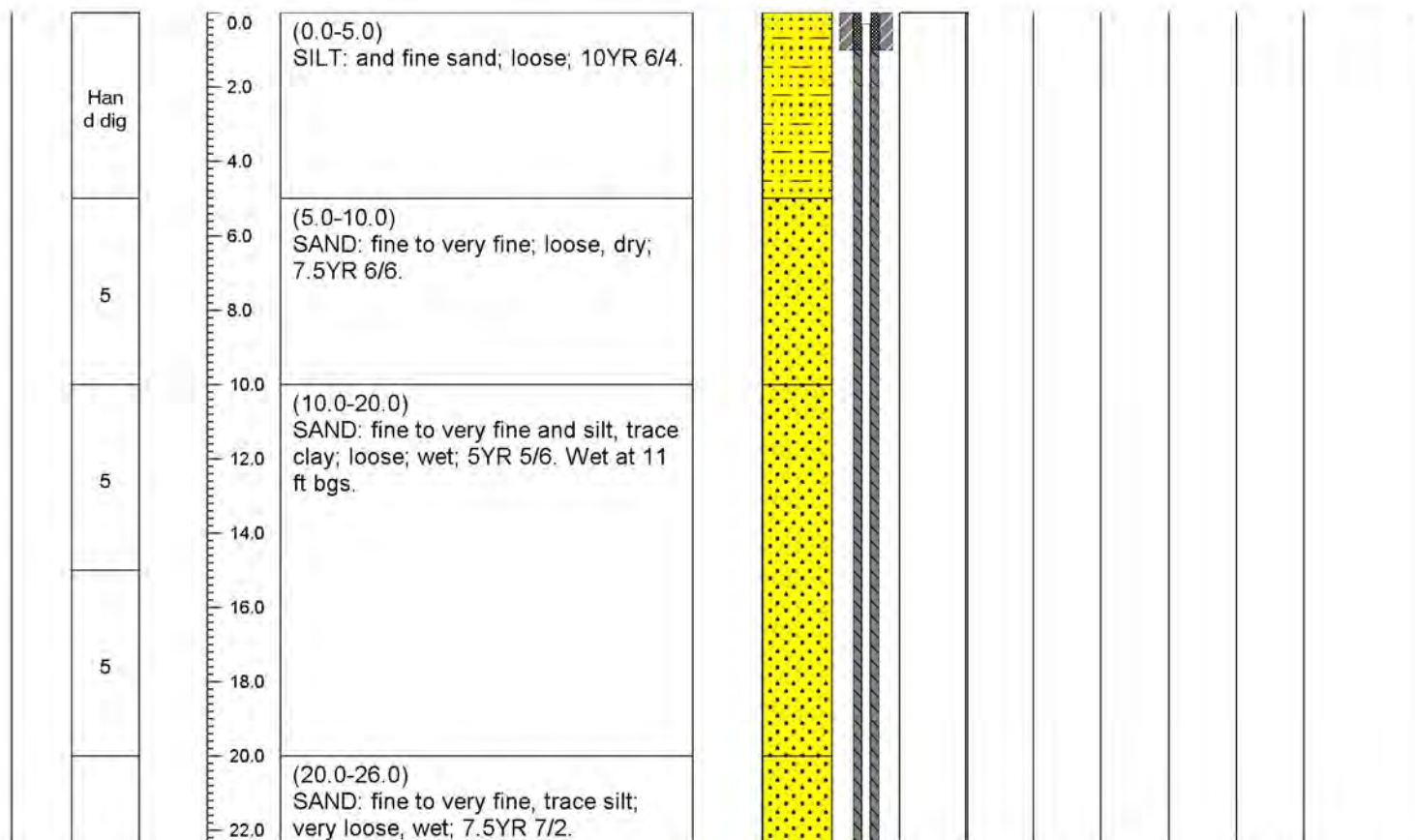
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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-56		Boring Number PZ-56											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-5-2021	Date Drilling Completed 8-5-2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-56-42	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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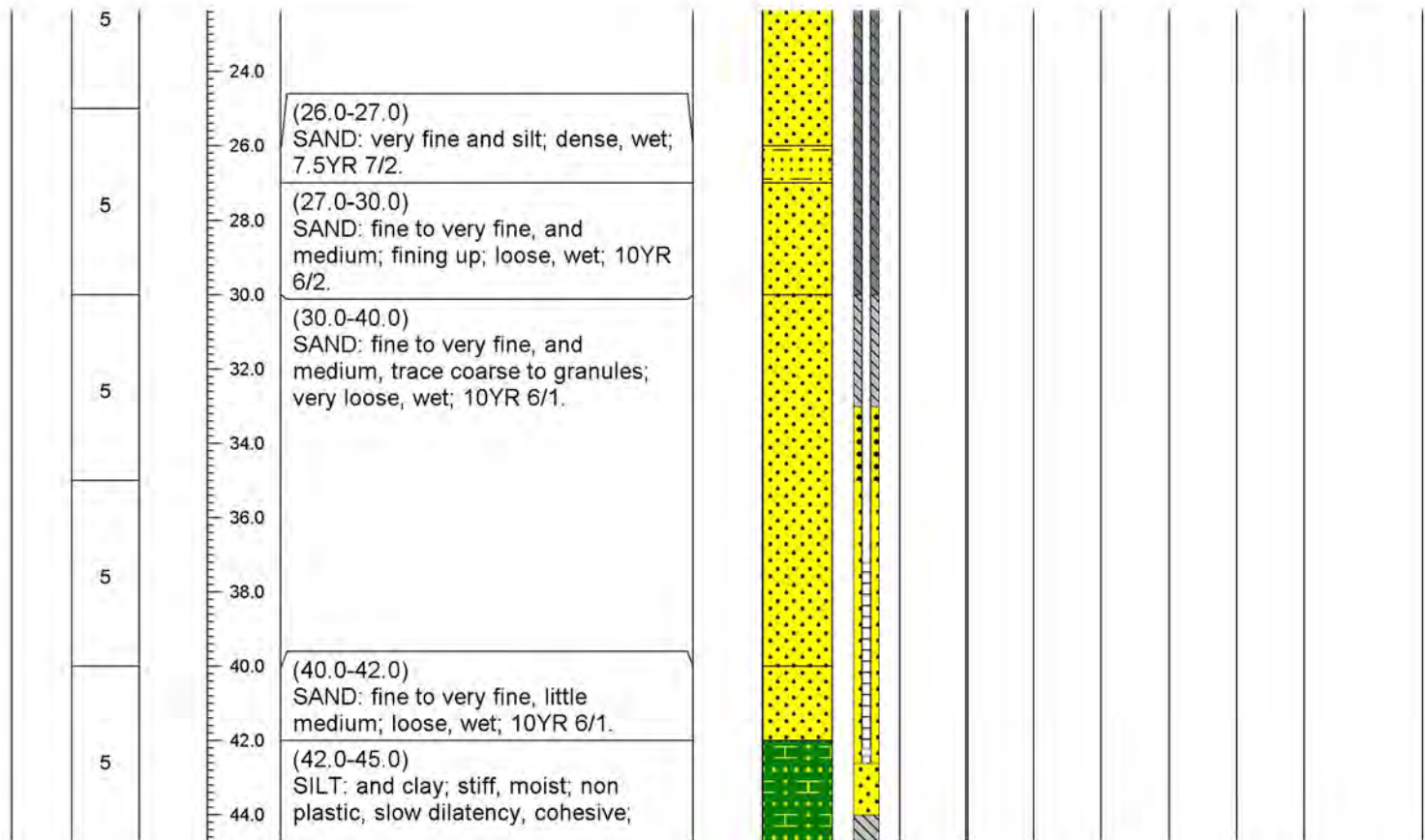
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126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/PZ-56		Boring Number PZ-56
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8-5-2021	Date Drilling Completed 8-5-2021	Drilling Method Roto-Sonic
WI Unique Well No.	DNR Well ID No.	PZ-56-42	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ Long _____ Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Sample Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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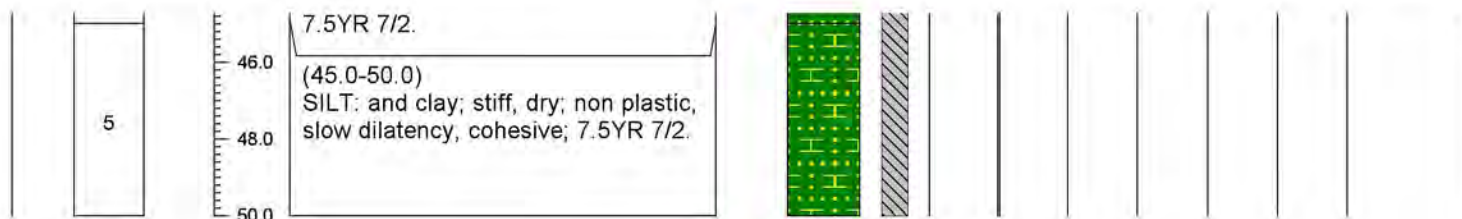
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Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-56		Boring Number PZ-56	
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-5-2021	Date Drilling Completed 8-5-2021	Drilling Method Roto-Sonic	
WI Unique Well No.	DNR Well ID No. PZ-56-42	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Sample Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Placticity Index	P 200		



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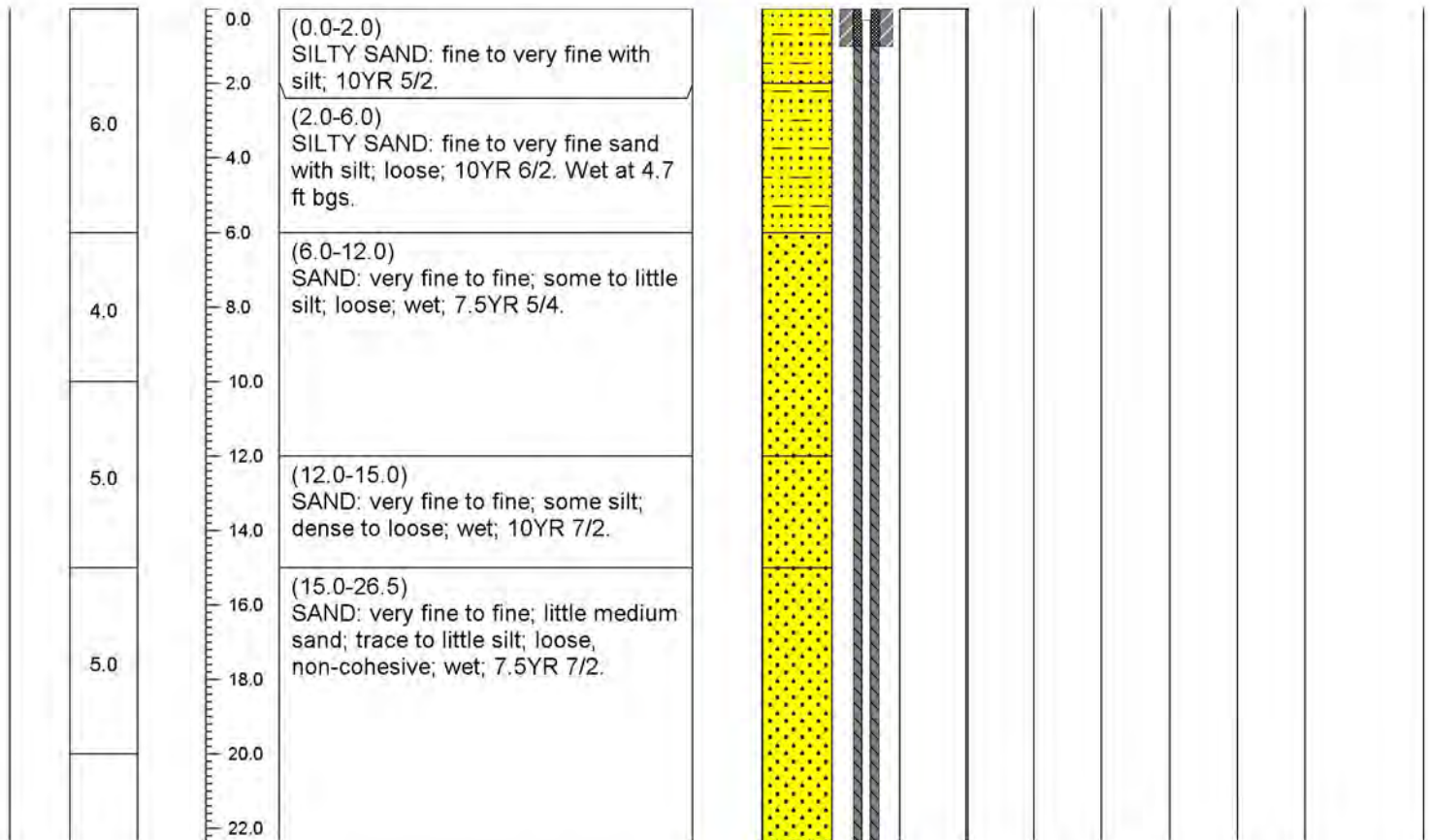
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-57		Boring Number PZ-57											
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-6-2021	Date Drilling Completed 8-6-2021	Drilling Method Roto-Sonic											
WI Unique Well No.	DNR Well ID No. PZ-57-39	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches										
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location												
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W											
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette											
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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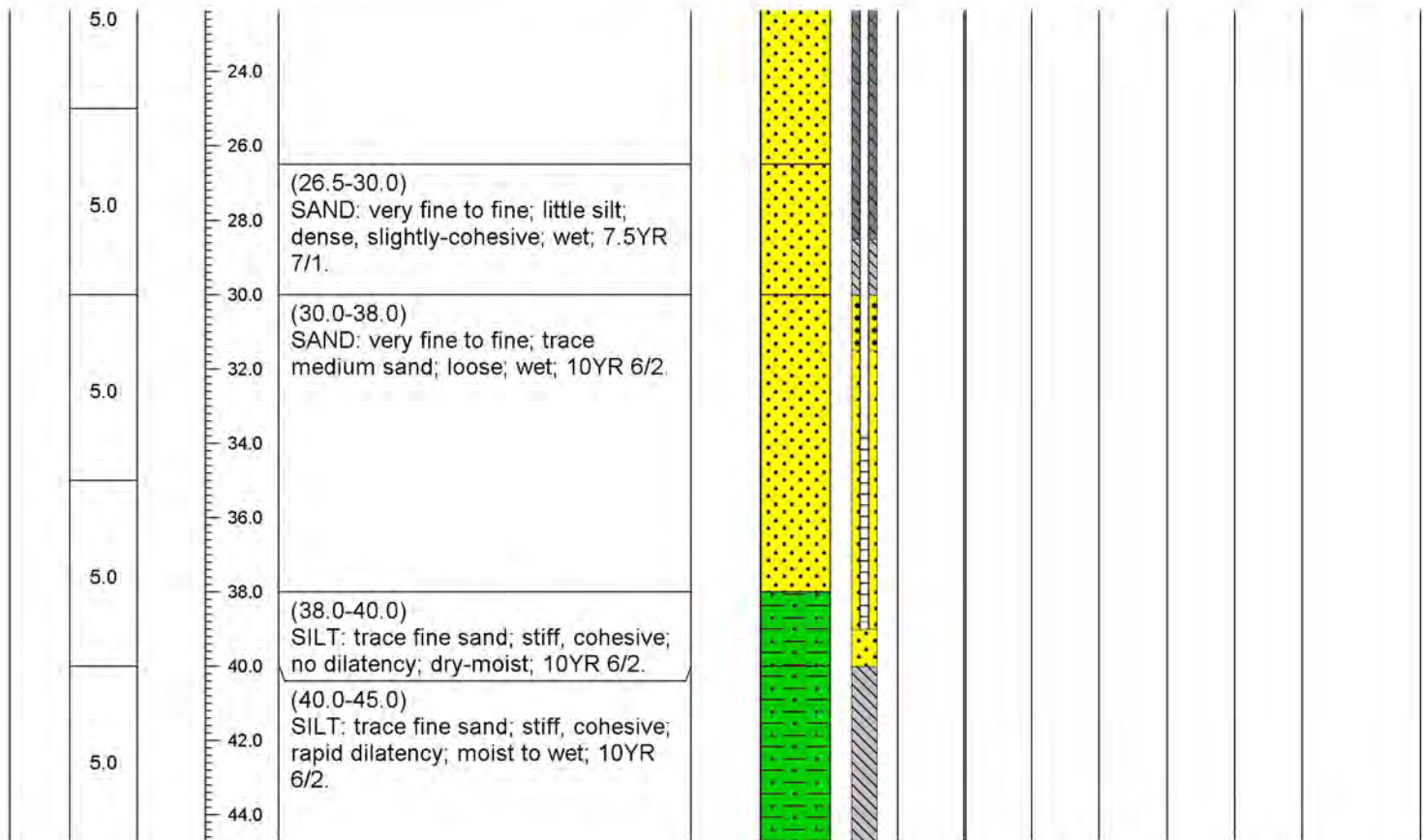
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Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-57		Boring Number PZ-57	
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-6-2021	Date Drilling Completed 8-6-2021	Drilling Method Roto-Sonic	
WI Unique Well No.	DNR Well ID No. PZ-57-39	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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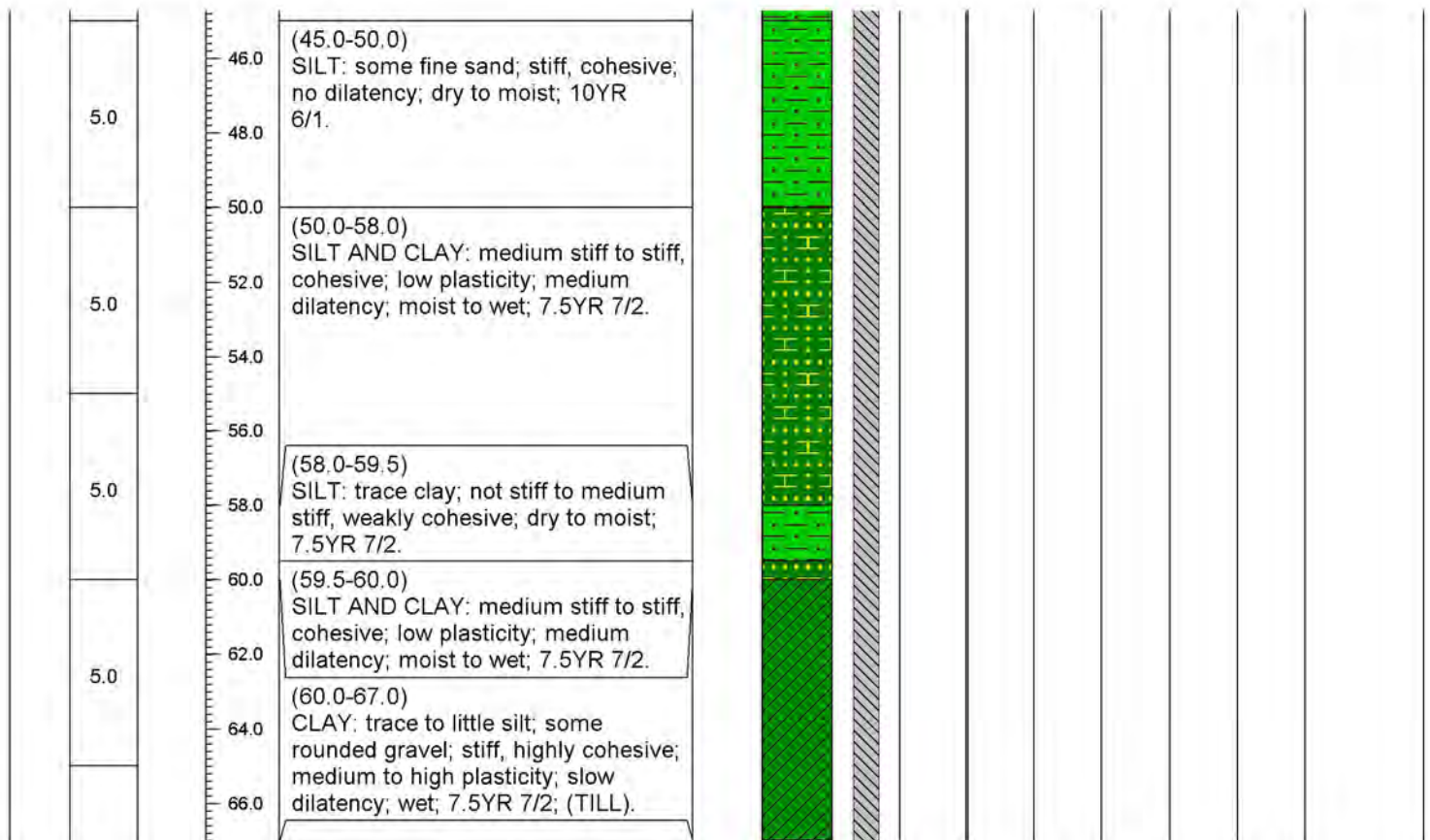
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-57		Boring Number PZ-57										
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-6-2021	Date Drilling Completed 8-6-2021	Drilling Method Roto-Sonic										
WI Unique Well No.	DNR Well ID No. PZ-57-39	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches									
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location											
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W										
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette										
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties				RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200	



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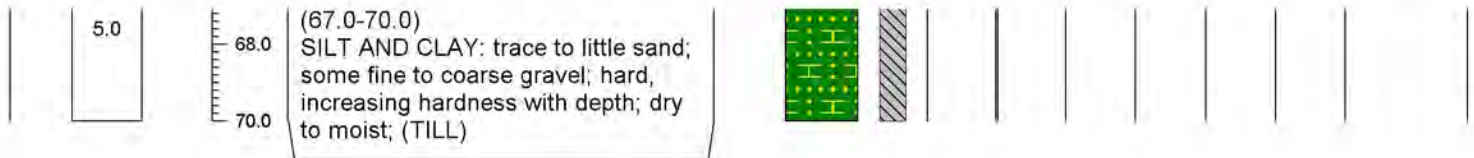
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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP		License/Permit/PZ-57		Boring Number PZ-57	
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling		Date Drilling Started 8-6-2021	Date Drilling Completed 8-6-2021	Drilling Method Roto-Sonic	
WI Unique Well No.	DNR Well ID No. PZ-57-39	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R		Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



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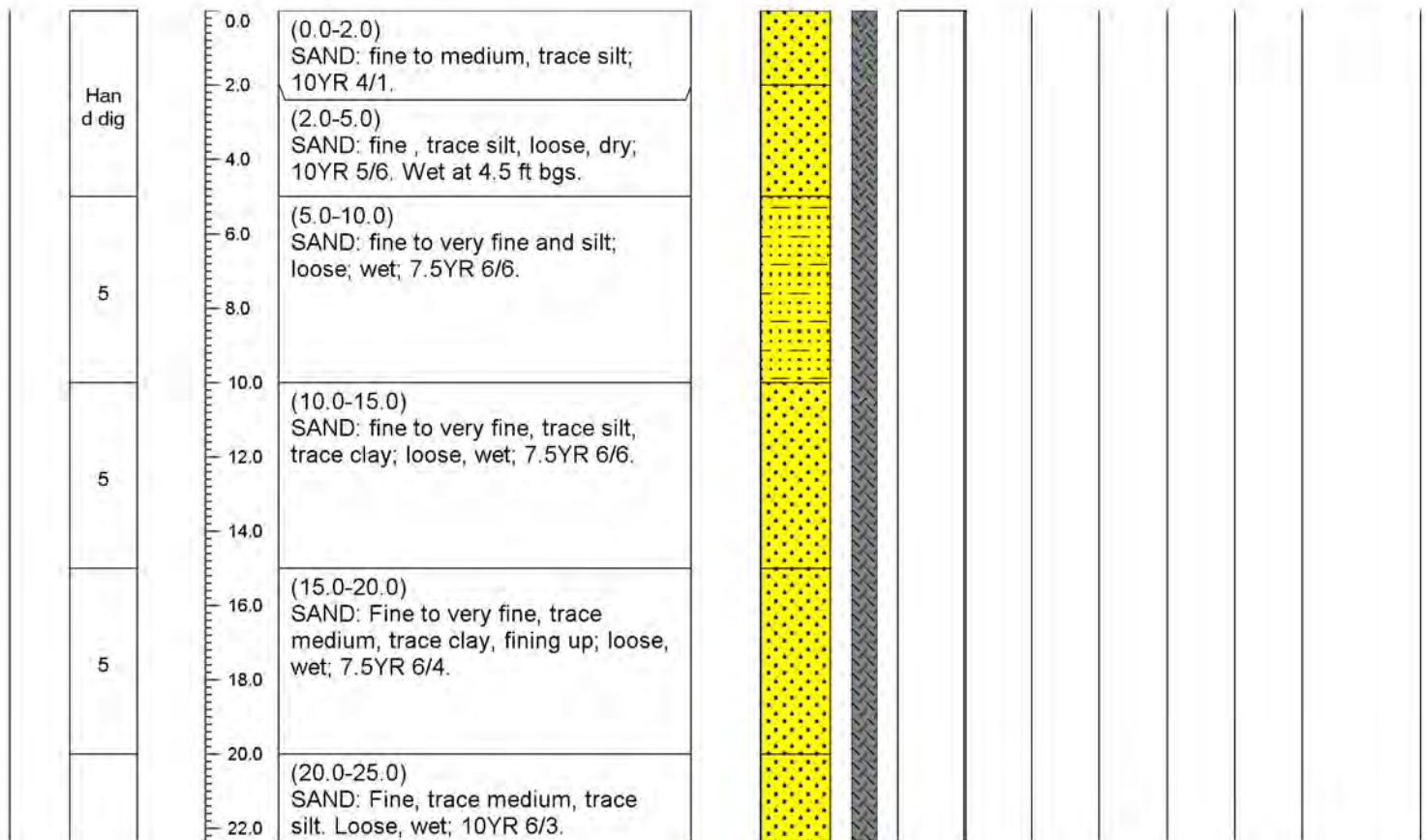
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Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/Monitoring Number		Boring Number VAP-54
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8-03-2021	Date Drilling Completed 8-03-2021	Drilling Method Roto-Sonic
WI Unique Well No.	DNR Well ID No.	NA	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 6 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ Long _____ Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 438005590		County Marinette	County Code 38	Civil Town/City/or Village Marinette	

Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

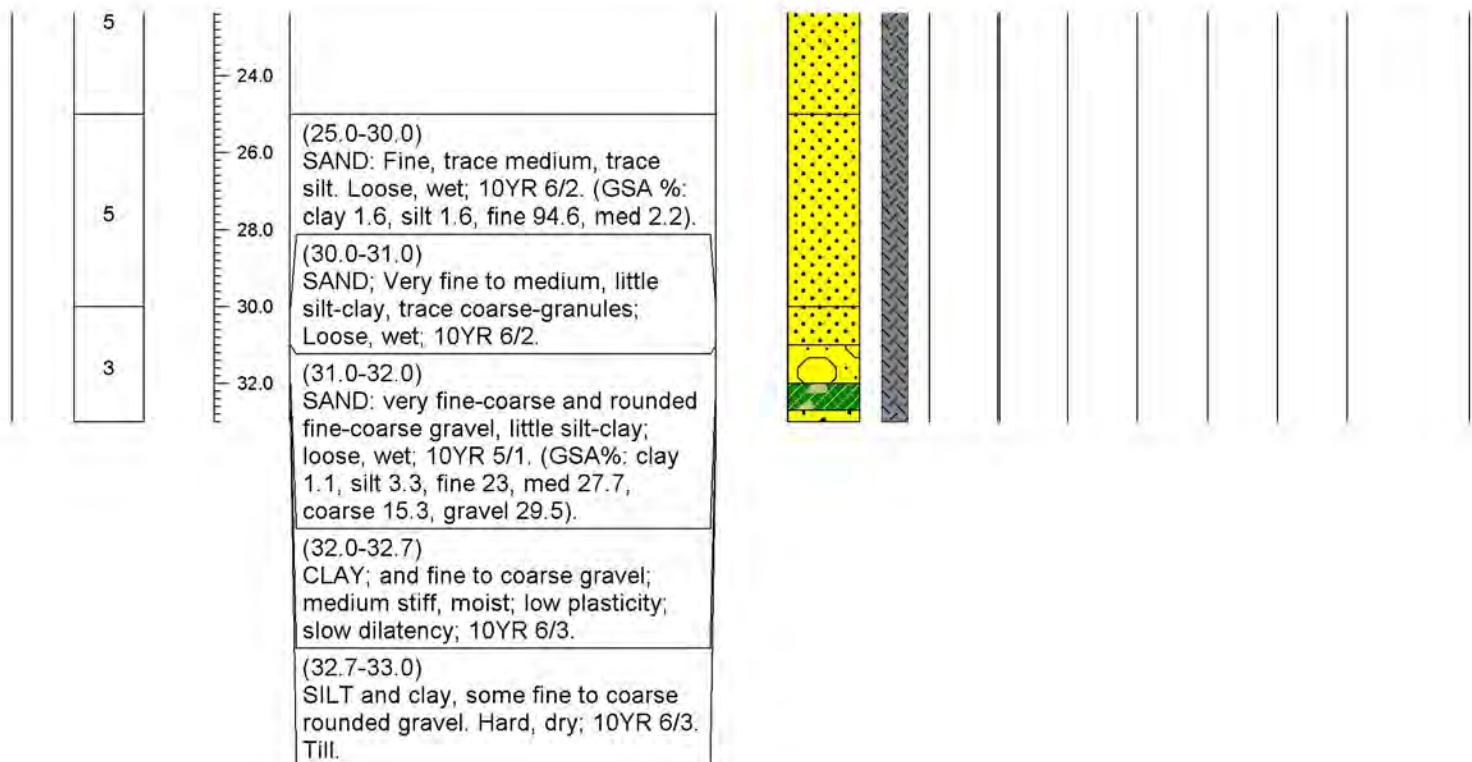
AM Wood

Firm ARCADIS

126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Tyco Fire Products LP			License/Permit/Monitoring Number			Boring Number VAP-54									
Boring Drilled By: First Name: Kendall Last Name: Schultz Firm: Cascade Drilling			Date Drilling Started 8-03-2021		Date Drilling Completed 8-03-2021		Drilling Method Roto-Sonic								
WI Unique Well No.	DNR Well ID No.	NA	Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 6 inches								
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>					Local Grid Location										
State Plane _____ N _____ E 1/4 of _____ 1/4 of Section _____ T N, R _____			Lat _____ Long _____		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W										
Facility ID 438005590		County Marinette		County Code 38		Civil Town/City/or Village Marinette									
Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Soil Properties					RQD/ Comments
										Moisture Content	Liquid Limit	Plasticity Index	P 200		



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

AM Wood

Firm **ARCADIS**

126 N. Jefferson St., Suite 400
Milwaukee, WI 53202

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco - GETS Installation	Local Grid Location of Well N. _____ ft. E. _____ ft. S. _____ ft. W. _____ ft.	Well Name EX-2
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated) or Well Location Lat. _____ Long. _____ or Northing 463837 Easting 2579753 ft. E. S / C / N	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 438005590	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 7 T. 30 N. R. 24	Date Well Installed 10/06/2021
Type of Well Well Code 26 / EW	Location of Well Relative to Well/Source u _____ d _____ n _____ s _____ Upgradient Downgradient Sidegradient Not Known	Well Installed By: Name (first, last) and Firm Al Sizemore Cascade Drilling
Distance from Waste/Source ft. _____	Gov. Lot Number _____	

A. Protective pipe, top elevation: 604.24 ft. MSL

B. Well casing, top elevation: _____ ft. MSL

C. Land surface elevation: 601.48 ft. MSL

D. Surface seal, bottom: _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used:
Rotary 50
Hollow stem auger 41
Sonic Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used: Yes No
Describe _____

17. Source of water (attach analysis, if required):
City water - hydrant

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ in.
c. Material: Steel 04 Other
d. Additional protection? Yes No
If yes, describe: **Vault**

3. Surface seal:
Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe:
Bentonite 30
Other

5. Annular space seal:
a. Granular/Chipped Bentonite 33
b. _____ Lbs/gal mud weight. Bentonite sand-slurry 35
c. _____ Lbs/gal mud weight. Bentonite slurry 31
d. **10.0** % Bentonite... Bentonite-cement grout 50
e. _____ FT³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal:
a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint sand and gravel** Other 7
b. Volume added **2** bags ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint sand and gravel** Other 10
b. Volume added **13** bags ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Stainless steel Other

10. Screen material: **Stainless steel**
a. Screen type: Factory cut 11
Continuous slot 01
Other
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **15.0** ft.

11. Backfill material (below filter pack): None 01
Other

E. Bentonite seal, top: _____ ft. MSL or _____ ft.

F. Fine sand, top: 587.48 ft. MSL or 14 ft.

G. Filter pack, top: 585.48 ft. MSL or 16 ft.

H. Screen joint, top: 584.84 ft. MSL or 17 ft.

I. Well bottom: 569.48 ft. MSL or 32 ft.

J. Filter pack, bottom: 566.48 ft. MSL or 35 ft.

K. Borehole, bottom: 566.48 ft. MSL or 35 ft.

L. Borehole diameter: 10 in.

M. O.D. well casing: 6 in.

N. I.D. well casing: 6 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.11 13:42:11 -05'00'
Firm: **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Facility/Project Name Tyco - GETS Installation	Local Grid Location of Well N. _____ E. _____ S. _____ W. _____	Well Name EX-3
Facility License, Permit or Monitoring No. 438005590	Local Grid Origin _____ (estimated: _____) or Well Location _____ Lat. _____ Long. _____ or _____	Wis Unique Well No. _____ DNR Well ID No. _____
Facility ID 438005590	Northing 464456 Easting 2580744 ft E S / C / N	Date Well Installed 10/19/2021
Type of Well Well Code 26 / EW	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 7 T. 30 N. R. 24	Well Installed By: Name (first, last) and Firm AI Sizemore Cascade Drilling
Distance from Waste/ Source _____ ft	Location of Well Relative to Well/Source u _____ Upgradient s _____ Sidegradient d _____ Downgradient n _____ Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL Yes No

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation **595.13** ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:

GP <input type="checkbox"/>	GM <input type="checkbox"/>	GC <input type="checkbox"/>	GW <input type="checkbox"/>	SW <input type="checkbox"/>	SP <input checked="" type="checkbox"/>
SM <input type="checkbox"/>	SC <input type="checkbox"/>	ML <input type="checkbox"/>	MH <input type="checkbox"/>	CL <input type="checkbox"/>	CH <input type="checkbox"/>

Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used:

Rotary <input type="checkbox"/>	50
Hollow stem auger <input type="checkbox"/>	41
Sonic <input type="checkbox"/>	Other <input checked="" type="checkbox"/>

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used: Yes No
Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top **590.13** ft. MSL or **5** ft.

G. Filter pack, top **589.13** ft. MSL or **6** ft.

H. Screen joint, top **588.13** ft. MSL or **7** ft.

I. Well bottom **573.13** ft. MSL or **22** ft.

J. Filter pack, bottom **570.13** ft. MSL or **25** ft.

K. Borehole, bottom **568.13** ft. MSL or **27** ft.

L. Borehole diameter **10** in

M. O.D. well casing **6** in

N. I.D. well casing **6** in.

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: _____ in
b. Length: _____ in
c. Material: Steel 04 Other
d. Additional protection? Yes No
If yes, describe: Vault

3. Surface seal: Bentonite 30 Concrete 01 Other

4. Material between well casing and protective pipe: Bentonite 30 Other

5. Annular space seal:
a. Granular/Chipped Bentonite 33
b. _____ Lbs/gal mud weight .. Bentonite sand-slurry 35
c. _____ Lbs/gal mud weight... Bentonite slurry 31
d. **10.0** % Bentonite... Bentonite-cement grout 50
e. _____ FT³ volume added for any of the above
f. _____ How installed: Tremie 01 Tremie pumped 02 Gravity 08

6. Bentonite seal:
a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint sand and gravel** Other 7
b. Volume added **2** bags ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint sand and gravel** Other 10
b. Volume added **14** bags ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Stainless steel Other

10. Screen material: **Stainless steel**
a. Screen type: Factory cut 11 Continuous slot 01
Wire wrapped Other

b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in
d. Slotted length: **15.0** ft.

11. Backfill material (below filter pack): None 01
2ft bentonite Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.11 13:42:45 -05'00' Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco - GETS Installation	Local Grid Location of Well N. _____ E. _____ S. _____ W. _____	Well Name EX-4
Facility License, Permit or Monitoring No.	Local Grid Origin _____ (estimated: _____) or Well Location _____ Lat. _____ Long. _____ or Northing 464207 Easting 2581221 ft. E. S / C / N	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 438005590	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 7 T. 30 N. R. 24	Date Well Installed 10/21/2021
Type of Well Well Code 26 / EW	Location of Well Relative to Well/Source u _____ Upgradient s _____ Sidegradient d _____ Downgradient n _____ Not Known	Well Installed By: Name (first, last) and Firm AI Sizemore Cascade Drilling
Distance from Waste/ Source _____ ft	Gov. Lot Number _____	

A Protective pipe, top elevation _____ 594.52 ft. MSL Yes No

B Well casing, top elevation _____ ft. MSL

C Land surface elevation _____ 594.39 ft. MSL

D Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used:
 Rotary 50
 Hollow stem auger 41
 Rotasonic Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used: Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City water - hydrant

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ 585.39 ft. MSL or _____ 9 ft.

G Filter pack, top _____ 583.39 ft. MSL or _____ 11 ft.

H Screen joint, top _____ 582.39 ft. MSL or _____ 12 ft.

I Well bottom _____ 567.39 ft. MSL or _____ 27 ft.

J. Filter pack, bottom _____ 562.39 ft. MSL or _____ 32 ft.

K Borehole, bottom _____ 557.39 ft. MSL or _____ 37 ft.

L Borehole diameter _____ 10 in.

M. O. D. well casing _____ 6 in.

N. I. D. well casing _____ 6 in.

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ in.
 b. Length: _____ in.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: Vault

3. Surface seal: Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
 Bentonite 30
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight... Bentonite sand-slurry 35
 c. _____ Lbs/gal mud weight... Bentonite slurry 31
 d. 10.0 % Bentonite... Bentonite-cement grout 50
 e. _____ FT³ volume added for any of the above
 f. _____ How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. Red Flint sand and gravel Other 7
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Red Flint sand and gravel Other 10
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Stainless steel Other

10. Screen material: Stainless steel
 a. Screen type: Factory cut 11
 Continuous slot 01
 Wire wrapped Other

b. Manufacturer: Johnson Screens
 c. Slot size: 0.010 in.
 d. Slotted length: 15.0 ft.

11. Backfill material (below filter pack):
 None 01
Bentonite chips/sand Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.11 13:43:09 -05'00' Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299 Wis. Stats. and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Facility/Project Name Tyco - GETS Installation	Local Grid Location of Well N. _____ E. _____ S. _____ W. _____	Well Name EX-5
Facility License, Permit or Monitoring No	Local Grid Origin _____ (estimated: _____) or Well Location _____	Wis. Unique Well No _____ DNR Well ID No _____
Facility ID 438005590	Northing 463777 Easting 2581723 ft. E. S / C / N	Date Well Installed 10/23/2021
Type of Well Well Code 26 / EW	Section Location of Waste/Source SW 1/4 of SE 1/4 of Sec. 7 T. 30 N. R. 24	Well Installed By: Name (first, last) and Firm Al Sizemore Cascade Drilling
Distance from Waste/Source _____ ft	Location of Well Relative to Well/Source u _____ s _____ d _____ n _____	Gov. Lot Number _____
Enf. Stds. Apply <input type="checkbox"/>	Upgradient Downgradient Sidegradient Not Known	

A. Protective pipe, top elevation 593.26 ft MSL Yes No

B. Well casing, top elevation _____ ft MSL

C. Land surface elevation 593.17 ft MSL

D. Surface seal, bottom _____ ft MSL or _____ ft

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow stem auger 41
 Sonic Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used: Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ in.
 b. Length: _____ in.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: Vault

3. Surface seal: Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe: Bentonite 30
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight... Bentonite sand-slurry 35
 c. _____ Lbs/gal mud weight... Bentonite slurry 31
 d. 10.0 % Bentonite Bentonite-cement grout 50
 e. _____ FT³ volume added for any of the above
 f. _____ How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. Red Flint sand and gravel Other _____
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Red Flint sand and gravel Other _____
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Stainless steel Other

10. Screen material: Stainless Steel 11
 a. Screen type: Factory cut 11
 Continuous slot 01
 Wire wrapped Other

b. Manufacturer: Johnson Screens
 c. Slot size: 0.010 in.
 d. Slotted length: 15.0 ft

11. Backfill material (below filter pack): None 01
 Bentonite/sand Other

E. Bentonite seal, top _____ ft MSL or _____ ft

F. Fine sand, top 562.17 ft MSL or 31 ft

G. Filter pack, top 560.17 ft MSL or 33 ft

H. Screen joint, top 558.17 ft MSL or 35 ft

I. Well bottom 543.17 ft MSL or 50 ft

J. Filter pack, bottom 540.17 ft MSL or 53 ft

K. Borehole, bottom 536.17 ft MSL or 57 ft

L. Borehole diameter 10 in.

M. O.D. well casing 6 in.

N. I.D. well casing 6 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.11 13:43:39 -05'00'

Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Facility/Project Name Tyco - GETS Installation	Local Grid Location of Well N _____ ft E _____ ft S _____ ft W _____ ft	Well Name EX-6
Facility License, Permit or Monitoring No.	Local Grid Origin _____ (estimated: _____) or Well Location _____ Lat. _____ Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 438005590	Northing 463381 Easting 2582022 ft. E. S / C / N	Date Well Installed 10/13/2021
Type of Well Well Code 26 / EW	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 7 T. 30 N, R. 24 W. _____ E. _____	Well Installed By: Name (first, last) and Firm AI Sizemore Cascade Drilling
Distance from Waste/Source _____ ft	Location of Well Relative to Well/Source u _____ s _____ d _____ n _____ Enf. Stds. Apply <input type="checkbox"/> Upgradient Downgradient Sidegradient Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation 594.44 ft. MSL Yes No

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation 594.39 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow stem auger 41
Rotasonic Other X

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used: Yes No
 Describe _____

17. Source of water (attach analysis, if required):
City water - hydrant

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ in
 b. Length: _____ in
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: Vault

3. Surface seal: Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe: Bentonite 30
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight... Bentonite sand-slurry 35
 c. _____ Lbs/gal mud weight... Bentonite slurry 31
 d. 10.0 % Bentonite... Bentonite-cement grout 50
 e. _____ FT³ volume added for any of the above
 f. _____ How installed: Tremie 01
 Tremie pumped 02
 Gravity 08

6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. Red Flint sand and gravel Other 7
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Red Flint sand and gravel Other 10
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
Stainless steel Other X

10. Screen material: **Stainless steel**
 a. Screen type: Factory cut 11
 Continuous slot 01
Wire wrapped Other X
 b. Manufacturer: **Johnson Screens**
 c. Slot size: 0.010 in.
 d. Slotted length: 15.0 ft.

11. Backfill material (below filter pack): None 01
 Other

E. Bentonite seal, top _____ ft. MSL or _____ ft

F. Fine sand, top 573.39 ft. MSL or 21 ft

G. Filter pack, top 571.39 ft. MSL or 23 ft

H. Screen joint, top 569.39 ft. MSL or 25 ft

I. Well bottom 554.39 ft. MSL or 40 ft.

J. Filter pack, bottom 549.39 ft. MSL or 45 ft

K. Borehole, bottom 549.39 ft. MSL or 45 ft.

L. Borehole diameter 10 in

M. O.D. well casing 6 in.

N. I.D. well casing 6 in

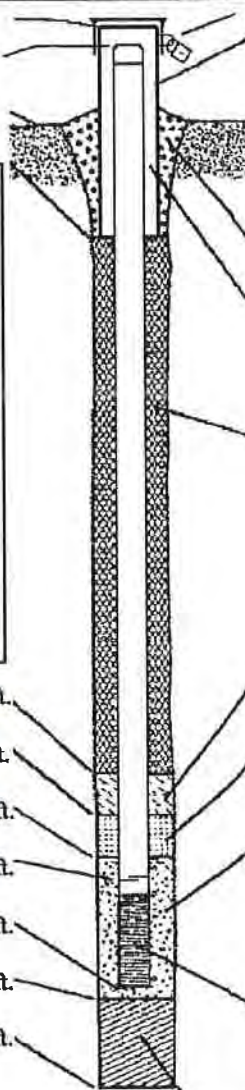
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.11 13:44:04 -05'00' Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Tyco - GETS System	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name EX-7R
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " Long. " or "	Wis. Unique Well No. DNR Well ID No.
Facility ID 43800550	St. Plane ft. N. ft. E. S/C/N	Date Well Installed 07/07/2022 m m d d y y y y
Type of Well Well Code 26 / EW	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 18, T. 30 N, R. 24 E W	Well Installed By: Name (first, last) and Firm Joe Argue Cascade Drilling
Distance from Waste/Source ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe: a. Inside diameter: ___ in. b. Length: ___ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation	ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Manhole Cover
D. Surface seal, bottom	ft. MSL or ___ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. ___ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. ___ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. ___ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. ___ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Sonic Other <input type="checkbox"/>		f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. 6 50 lb bags Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		7. Fine sand material: Manufacturer, product name & mesh size a. Hole products b. Volume added 2 50 lb bags
17. Source of water (attach analysis, if required): _____		8. Filter pack material: Manufacturer, product name & mesh size a. Hole products b. Volume added 8 50 lb bags
E. Bentonite seal, top	ft. MSL or 7 ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Stainless Steel Other <input checked="" type="checkbox"/>
F. Fine sand, top	ft. MSL or 22 ft.	10. Screen material: Steel
G. Filter pack, top	ft. MSL or 24 ft.	a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top	ft. MSL or 26 ft.	b. Manufacturer Johnson
I. Well bottom	ft. MSL or 41 ft.	c. Slot size: 0.010 in.
J. Filter pack, bottom	ft. MSL or 43 ft.	d. Slotted length: 15 ft.
K. Borehole, bottom	ft. MSL or 50 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Bentonite Chips Other <input checked="" type="checkbox"/>
L. Borehole, diameter	9 in.	
M. O.D. well casing	6 in.	
N. I.D. well casing	6 in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: **J. Bannister** Firm: **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco - GETS Installation	Local Grid Location of Well N _____ ft E _____ ft S _____ ft W _____ ft	Well Name EX-8
Facility License, Permit or Monitoring No.	Local Grid Origin _____ (estimated: _____) or Well Location _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 438005590	Northing 462677 Easting 2580658 ft E. S / C / N	Date Well Installed 10/12/2021
Type of Well Well Code 26 / EW	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec 18 T. 30 N. R. 24 W.	Well Installed By: Name (first, last) and Firm Al Sizemore Cascade Drilling
Distance from Waste/Source _____ ft	Location of Well Relative to Well/Source u _____ Upgradient s _____ Sidegradient d _____ Downgradient n _____ Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation	616.82 ft. MSL	1. Cap and lock?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation	_____ ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	615.82 ft. MSL	a. Inside diameter: _____ in.	
D. Surface seal, bottom	_____ ft. MSL or _____ ft.	b. Length: _____ in.	
12. USCS classification of soil near screen:		c. Material:	Steel <input type="checkbox"/> 04 Other <input type="checkbox"/>
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/>		d. Additional protection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>		If yes, describe: <u>Vault</u>	
Bedrock <input type="checkbox"/>		3. Surface seal	Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
14. Drilling method used:		5. Annular space seal:	
Rotary <input type="checkbox"/> 50		a. Granular/Chipped Bentonite <input type="checkbox"/> 33	
Hollow stem auger <input type="checkbox"/> 41		b. _____ Lbs/gal mud weight... Bentonite sand-slurry <input type="checkbox"/> 35	
Sonic <input checked="" type="checkbox"/> Other <input type="checkbox"/>		c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31	
15. Drilling fluid used:		d. 10.0 % Bentonite... Bentonite-cement grout <input checked="" type="checkbox"/> 50	
Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01		e. _____ FT ³ volume added for any of the above	
Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99		f. _____ How installed:	Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 53
Describe _____		b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32	
17. Source of water (attach analysis, if required):		c. _____ Other <input type="checkbox"/>	
E. Bentonite seal, top	_____ ft. MSL or _____ ft.	7. Fine sand material: Manufacturer, product name & mesh size	
F. Fine sand, top	564.82 ft. MSL or 51 ft.	a. Red Flint sand and gravel Other <input type="checkbox"/> 7	
G. Filter pack, top	562.82 ft. MSL or 53 ft.	b. Volume added 2 bags ft ³	
H. Screen joint, top	561.82 ft. MSL or 54 ft.	8. Filter pack material: Manufacturer, product name & mesh size	
I. Well bottom	546.82 ft. MSL or 69 ft.	a. Red Flint sand and gravel Other <input type="checkbox"/> 10	
J. Filter pack, bottom	543.82 ft. MSL or 72 ft.	b. Volume added 15 bags ft ³	
K. Borehole, bottom	543.82 ft. MSL or 72 ft.	9. Well casing:	Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Stainless steel <input checked="" type="checkbox"/> X
L. Borehole diameter	10 in.	10. Screen material: Stainless steel	
M. O.D. well casing	6 in.	a. Screen type:	Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Wire wrapped Other <input checked="" type="checkbox"/> X
N. I.D. well casing	6 in.	b. Manufacturer: Johnson Screens	
		c. Slot size: 0.010 in.	
		d. Slotted length: 15.0 ft.	
		11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.11 13:45:04 -05'00' Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco - GETS Installation	Local Grid Location of Well N. _____ E. _____ S. _____ W. _____	Well Name EX-9
Facility License, Permit or Monitoring No. 438005590	Local Grid Origin _____ (estimated: _____) or Well Location _____ Lat. _____ Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 438005590	Northing 461957 Easting 2582473 ft. E. S / C / N	Date Well Installed 10/14/2021
Type of Well Well Code 26 / EW	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 18 T 30 N, R. 24 W	Well Installed By: Name (first, last) and Firm AI Sizemore Cascade Drilling
Distance from Waste/Source _____ ft	Location of Well Relative to Well/Source Upgradient _____ Downgradient _____ Sidegradient _____ Not Known _____	Gov. Lot Number _____

A. Protective pipe, top elevation 596.32 ft. MSL Yes No

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation 596.22 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used:
Rotary 50
Hollow stem auger 41
Rotasonic Other X

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used: Yes No
Describe _____

17. Source of water (attach analysis, if required):
City water - hydrant

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top 575.22 ft. MSL or 21 ft.

G. Filter pack, top 573.22 ft. MSL or 23 ft.

H. Screen joint, top 571.62 ft. MSL or 25 ft.

I. Well bottom 556.22 ft. MSL or 40 ft.

J. Filter pack, bottom 552.22 ft. MSL or 44 ft.

K. Borehole, bottom 552.22 ft. MSL or 44 ft.

L. Borehole diameter 10 in

M. O.D. well casing 6 in

N. I.D. well casing 6 in

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: _____ in
b. Length: _____ in
c. Material: Steel 04
Other
d. Additional protection? Yes No
If yes, describe: Vault

3. Surface seal: Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe: Bentonite 30
Other

5. Annular space seal:
a. Granular/Chipped Bentonite 33
b. _____ Lbs/gal mud weight, Bentonite sand-slurry 35
c. _____ Lbs/gal mud weight, Bentonite slurry 31
d. 10.0 % Bentonite, Bentonite-cement grout 50
e. _____ FT³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal:
a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint sand and gravel** Other 7
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint sand and gravel** Other 10
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Stainless steel X

10. Screen material: **Stainless steel**
a. Screen type: Factory cut 11
Continuous slot 01
Wire wrapped Other X
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **15.0** ft.

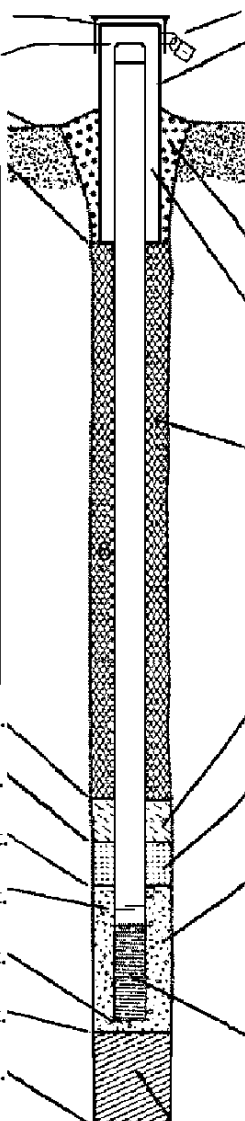
11. Backfill material (below filter pack): None 01
Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Jim Bannantine** Digitally signed by Jim Bannantine Date: 2022.07.11 13:45:29 -05'00' Firm **Geosyntec Consultants**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295 and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Tyco FTC</u>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <u>PZ-47-40</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. <u> </u> DNR Well ID No. <u> </u>	
Facility ID <u>4 3 8 0 0 5 5 9 0</u>		Lat. _____ "Long. _____" or St. Plane <u>463488.074</u> ft. N, <u>2578741.018</u> ft. E. <input checked="" type="checkbox"/> S <input type="checkbox"/> N		Date Well Installed <u>08/04/2021</u> m m d d y y v v y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Section Location of Waste/Source <u>NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Kendall Schultz</u> <u>Cascade Drilling</u>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>					

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation <u>611.044</u> ft. MSL</p> <p>C. Land surface elevation <u>608.161</u> ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or <u>2.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 <u>Sonic</u> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): <u>City of Marinette hydrant</u></p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>29.0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>31.0</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>33.0</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>35.0</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>40.0</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>43.0</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>43.0</u> ft.</p> <p>L. Borehole, diameter <u>6</u> in.</p> <p>M. O.D. well casing <u>2</u> in.</p> <p>N. I.D. well casing _____ in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>4</u> in. b. Length: <u>5</u> ft. c. Material: <u>Stick-up completion</u> Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input checked="" type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>#15 Red Flint</u> b. Volume added <u>1/2-50 lb bag</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added <u>5-50 lb bag</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer <u>Johnson Screen</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>5</u> ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Allan Wood Firm Arcadis U.S., Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Tyco FTC		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name PZ-51-38	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or St. Plane 463344.357 ft. N, 2582027.174 ft. E. S/C/N		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 4 3 8 0 0 5 5 9 0		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Date Well Installed 08 / 19 / 20 2 1 m m d d y y v v y	
Type of Well Well Code 12 / PZ		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: Name (first, last) and Firm Kendall Schultz Cascade Drilling	
Distance from Waste/Source _____ ft.		Gov. Lot Number _____			

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation 594.406 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation 594.862 ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 2.0 ft.	c. Material: Flushmount completion Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Sonic <input checked="" type="checkbox"/> Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): City of Marinette hydrant	7. Fine sand material: Manufacturer, product name & mesh size a. #15 Red Flint b. Volume added 1/2-50 lb bag ft ³
E. Bentonite seal, top _____ ft. MSL or 24.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. #40 Red Flint b. Volume added 5-50 lb bag ft ³
F. Fine sand, top _____ ft. MSL or 29.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 31.0 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 33.0 ft.	b. Manufacturer Johnson Screen c. Slot size: 0.010 in. d. Slotted length: 5 ft.
I. Well bottom _____ ft. MSL or 38.0 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Bentonite Chips <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 40.0 ft.	
K. Borehole, bottom _____ ft. MSL or 60.0 ft.	
L. Borehole, diameter 6 in.	
M. O.D. well casing 2 in.	
N. I.D. well casing _____ in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Allan Wood Firm Arcadis U.S., Inc.

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Facility/Project Name Tyco FTC		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name PZ-52-41	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or St. Plane 462776.477 ft. N, 2582413.718 ft. E. S/C/N		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 4 3 8 0 0 5 5 9 0		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Date Well Installed 08/17/2021 m m d d y y v v y	
Type of Well Well Code 12 / PZ		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: Name (first, last) and Firm Kendall Schultz Cascade Drilling	
Distance from Waste/Source _____ ft.		Gov. Lot Number _____			

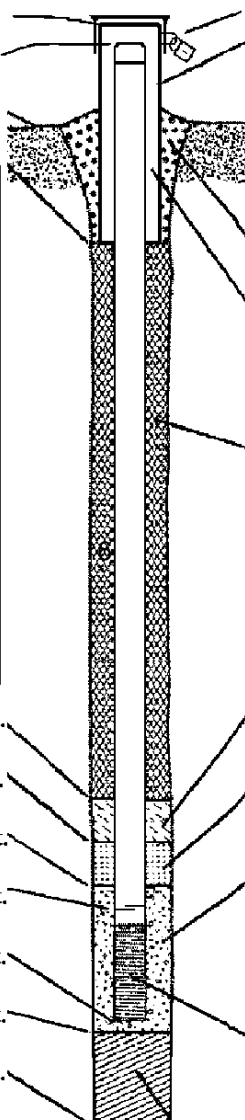
A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation 594.734 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation 595.165 ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 2.0 ft.	c. Material: Flushmount completion Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Sonic <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): City of Marinette hydrant	7. Fine sand material: Manufacturer, product name & mesh size a. #15 Red Flint b. Volume added 1/2-50 lb bag ft ³
E. Bentonite seal, top _____ ft. MSL or 28.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. #40 Red Flint b. Volume added 5-50 lb bag ft ³
F. Fine sand, top _____ ft. MSL or 32.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 34.0 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 36.0 ft.	b. Manufacturer Johnson Screen c. Slot size: 0.010 in. d. Slotted length: 5 ft.
I. Well bottom _____ ft. MSL or 41.0 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Bentonite Chips <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 43.0 ft.	
K. Borehole, bottom _____ ft. MSL or 52.0 ft.	
L. Borehole, diameter 6 in.	
M. O.D. well casing 2 in.	
N. I.D. well casing _____ in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Allan Wood Firm Arcadis U.S., Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name <u>Tyco FTC</u>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <u>PZ-53-40</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or St. Plane <u>461921.215</u> ft. N, <u>258249.505</u> ft. E. <input checked="" type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID <u>4 3 8 0 0 5 5 9 0</u>		Section Location of Waste/Source <u>NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Date Well Installed <u>08/18/2021</u> m m d d y y v v y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: Name (first, last) and Firm <u>Kendall Schultz</u> <u>Cascade Drilling</u>	
Distance from Waste/Source _____ ft.		Gov. Lot Number _____			

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation <u>595.672</u> ft. MSL</p> <p>C. Land surface elevation <u>595.965</u> ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or <u>2.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 <u>Sonic</u> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): <u>City of Marinette hydrant</u></p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>26.0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>31.0</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>33.0</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>35.0</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>40.0</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>43.0</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>55.0</u> ft.</p> <p>L. Borehole, diameter <u>6</u> in.</p> <p>M. O.D. well casing <u>2</u> in.</p> <p>N. I.D. well casing _____ in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: <u>1</u> ft. c. Material: <u>Flushmount completion</u> Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input checked="" type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>#15 Red Flint</u> b. Volume added <u>1/2-50 lb bag</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added <u>5-50 lb bag</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer <u>Johnson Screen</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>5</u> ft.</p> <p>11. Backfill material (below filter pack): <u>Bentonite Chips</u> None <input type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
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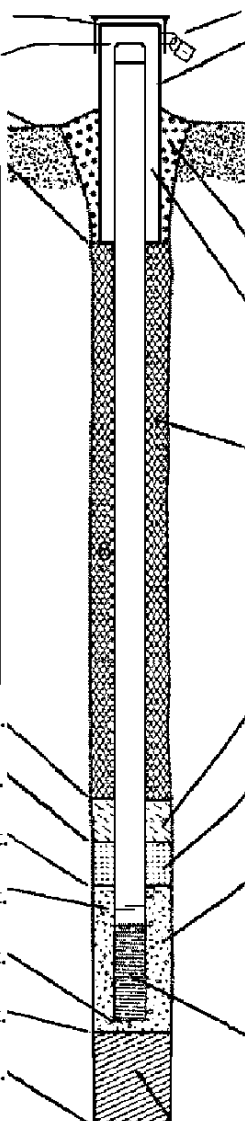
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Allan Wood Firm Arcadis U.S., Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Tyco FTC</u>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <u>PZ-54-47</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ "		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID <u>4 3 8 0 0 5 5 9 0</u>		St. Plane <u>462712.259</u> ft. N, <u>2581376.307</u> ft. E. <input checked="" type="checkbox"/> S <input type="checkbox"/> N		Date Well Installed <u>08/10/2021</u> m m d d y y v v y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Section Location of Waste/Source <u>NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Kendall Schultz</u> <u>Cascade Drilling</u>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation <u>598.377</u> ft. MSL</p> <p>C. Land surface elevation <u>598.804</u> ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or <u>2.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 <u>Sonic</u> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): <u>City of Marinette hydrant</u></p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>33.0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>38.0</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>40.0</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>42.0</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>47.0</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>48.0</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>50.0</u> ft.</p> <p>L. Borehole, diameter <u>6</u> in.</p> <p>M. O.D. well casing <u>2</u> in.</p> <p>N. I.D. well casing _____ in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: <u>Flushmount completion</u> Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input checked="" type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>#15 Red Flint</u> b. Volume added <u>1/2-50 lb bag</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added <u>5-50 lb bag</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer <u>Johnson Screen</u> c. Slot size: _____ 0.010 in. d. Slotted length: <u>5</u> ft.</p> <p>11. Backfill material (below filter pack): <u>Bentonite Chips</u> None <input type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Allan Wood Firm Arcadis U.S., Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Tyco FTC		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name PZ-55-64	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or St. Plane 462662.519 ft. N, 2580658.807 ft. E. S/C/N		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 4 3 8 0 0 5 5 9 0		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Date Well Installed 08/11/2021 m m d d y y v v v	
Type of Well Well Code 12 / PZ		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: Name (first, last) and Firm Kendall Schultz Cascade Drilling	
Distance from Waste/Source _____ ft.		Gov. Lot Number _____			

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation 616.536 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation 616.257 ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 2.0 ft.	c. Material: Flushmount completion Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Sonic <input checked="" type="checkbox"/> Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): City of Marinette hydrant	7. Fine sand material: Manufacturer, product name & mesh size a. #15 Red Flint b. Volume added 1/2-50 lb bag ft ³
E. Bentonite seal, top _____ ft. MSL or 50.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. #40 Red Flint b. Volume added 5-50 lb bag ft ³
F. Fine sand, top _____ ft. MSL or 55.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 57.0 ft.	10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 59.0 ft.	b. Manufacturer Johnson Screen c. Slot size: 0.010 in. d. Slotted length: 5 ft.
I. Well bottom _____ ft. MSL or 64.0 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Bentonite Chips <input checked="" type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or 65 ft.	
K. Borehole, bottom _____ ft. MSL or 65.0 ft.	
L. Borehole, diameter 6 in.	
M. O.D. well casing 2 in.	
N. I.D. well casing _____ in.	

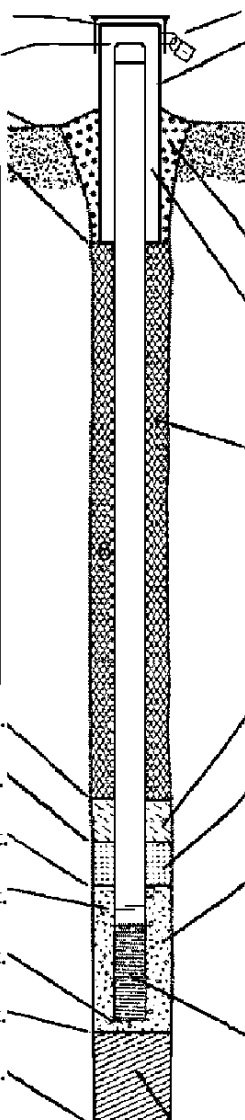
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Allan Wood Firm Arcadis U.S., Inc.

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name PZ-56-42	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or St. Plane 463289.605 ft. N, 2580664.186 ft. E. S/C/N		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 4 3 8 0 0 5 5 9 0		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Date Well Installed 08/105/2021 m m d d y y v v y	
Type of Well Well Code 12 / PZ		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: Name (first, last) and Firm Kendall Schultz Cascade Drilling	
Distance from Waste/Source _____ ft.		Gov. Lot Number _____			

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation 605.427 ft. MSL</p> <p>C. Land surface elevation 605.882 ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or 2.0 ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Sonic <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): City of Marinette hydrant</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or 30.0 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 33.0 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 35.0 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 37.2 ft.</p> <p>I. Well bottom _____ ft. MSL or 42.2 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 44.0 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 50.0 ft.</p> <p>L. Borehole, diameter 6 in.</p> <p>M. O.D. well casing 2 in.</p> <p>N. I.D. well casing _____ in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 1 ft. c. Material: Flushmount completion Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Sand Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input checked="" type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. #15 Red Flint b. Volume added 1/2-50 lb bag ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. #40 Red Flint b. Volume added 5-50 lb bag ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>b. Manufacturer Johnson Screen c. Slot size: 0.010 in. d. Slotted length: 5 ft.</p> <p>11. Backfill material (below filter pack): Bentonite Chips None <input type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

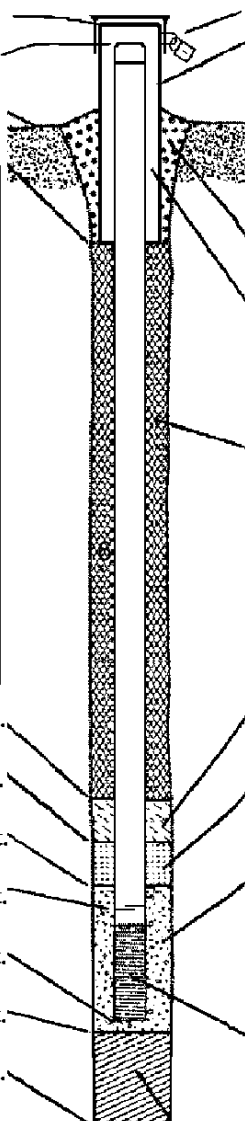
Signature Allan Wood Firm Arcadis U.S., Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Tyco FTC</u>		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name <u>PZ-57-38</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. _____ " Long. _____ " or St. Plane <u>462908.71</u> ft. N, <u>2583829.915</u> ft. E. <input checked="" type="checkbox"/> S <input type="checkbox"/> N		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID <u>4 3 8 0 0 5 5 9 0</u>		Section Location of Waste/Source <u>NE 1/4 of NE 1/4 of Sec. 13, T. 30 N, R. 23</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Date Well Installed <u>08/10/2021</u> m m d d y y v v y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: Name (first, last) and Firm <u>Kendall Schultz</u> <u>Cascade Drilling</u>	
Distance from Waste/Source _____ ft.		Gov. Lot Number _____			

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>594.035</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation <u>594.274</u> ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or <u>2.0</u> ft.	c. Material: <u>Flushmount completion</u> Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>Sonic</u> Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: <u>Sand</u> Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input checked="" type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): <u>City of Marinette hydrant</u>	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#15 Red Flint</u> b. Volume added <u>1/2-50 lb bag</u> ft ³
E. Bentonite seal, top _____ ft. MSL or <u>28.5</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added <u>5-50 lb bag</u> ft ³
F. Fine sand, top _____ ft. MSL or <u>30.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>31.5</u> ft.	10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>33.8</u> ft.	b. Manufacturer <u>Johnson Screen</u> c. Slot size: _____ 0.010 in. d. Slotted length: <u>5</u> ft.
I. Well bottom _____ ft. MSL or <u>38.8</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Bentonite Chips</u> Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>40.0</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>70.0</u> ft.	
L. Borehole, diameter <u>6</u> in.	
M. O.D. well casing <u>2</u> in.	
N. I.D. well casing _____ in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Allan Wood Firm Arcadis U.S., Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name Ex-1
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	41
surged with bailer and pumped	<input checked="" type="checkbox"/>	61
surged with block and bailed	<input type="checkbox"/>	42
surged with block and pumped	<input type="checkbox"/>	62
surged with block, bailed and pumped	<input type="checkbox"/>	70
compressed air	<input type="checkbox"/>	20
bailed only	<input type="checkbox"/>	10
pumped only	<input type="checkbox"/>	51
pumped slowly	<input type="checkbox"/>	50
Other _____	<input type="checkbox"/>	

3. Time spent developing well _____ 16 min.

4. Depth of well (from top of well casing) _____ 32.2 ft.

5. Inside diameter of well _____ 6.00 in.

6. Volume of water in filter pack and well casing _____ 43.2 gal.

7. Volume of water removed from well _____ 262.0 gal.

8. Volume of water added (if any) N/A _____ gal.

9. Source of water added N/A _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 4.15 ft.	_____ 4.15 ft.
Date	b. <u>05/31/2022</u> m m d d y y y y	<u>05/31/2022</u> m m d d y y y y
Time	c. <u>11:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1:59</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ 0.0 inches	_____ 0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Brown bloody, visible sediment</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>light yellow color, clear, no visible sediment</u>
Fill in if drilling fluids were used and well is at solid waste facility: N/A		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Adam Last Name: Sockmisen

Firm: Cascade Drilling LP

17. Additional comments on development: scan near bailer not hard firm surface @ 30'
 - Pulled out 12 gal w/ 3 bailers, water brown/cloudy w/ visible sediment that lessened by the 3rd bailer. Bottom of well depth did not change after bailing.
 - Pumped 250 gal out of well. Water started light brown/cloudy. Water was clear w/ no visible sediment by 50 gal of removed water. Water maintained light yellow color. Pumped well from 1341 to 1357. Bottom of well depth did not change during development (32.2ft bgs)

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Denice Last Name: Nelson

Facility/Firm: Tyco Fire Products, LP

Street: 2700 Industrial Parkway South

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name Ex - 2
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____
3. Time spent developing well _____ 33 min.
4. Depth of well (from top of well casing) _____ 33.5 ft.
5. Inside diameter of well _____ 6.00 in.
6. Volume of water in filter pack and well casing _____ 46.4 gal.
7. Volume of water removed from well _____ 516.0 gal.
8. Volume of water added (if any) N/A _____ gal.
9. Source of water added N/A _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ ft.	_____ ft.
Date	b. 05/31/2022 m m d d y y y y	05/31/2022 m m d d y y y y
Time	c. 2:58 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	3:07 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ 0.6 inches	_____ 0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Brown color, cloudy, visible sediment, sandy</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Clear, light yellow color, no visible sediment</u>
Fill in if drilling fluids were used and well is at solid waste facility:	N/A	
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Adam Last Name: Jockimsen
Firm: Cascade Drilling LP

17. Additional comments on development:
*Unable to obtain water level due to water level exceeding top of casing
- Bailed 11 full bailers of sediment & water (~16 gal). Water started brown and cloudy w/ visible sand and sediment. Sand was no longer visible after 3rd bailing. Bailer @ heard how, not it.
- Pump @ 50 gal: cloudy, brown
- Pump @ 100 gal: light tan, w/ lighter sediment
- Pump @ 200 gal: clear, light yellow color, no visible sediment, pulled out 50 gal w/ pump
- Bore @ 33.4 ft bgs before development, then 33.4 ft bgs after bailing, no change after pumping

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Denice Last Name: Nelson

Facility/Firm: Tyco Fire Products, LP

Street: 2700 Industrial Parkway South

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name Ex-3
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 32 min.

4. Depth of well (from top of well casing) 24.6 ft.

5. Inside diameter of well 6.00 in.

6. Volume of water in filter pack and well casing 361 gal.

7. Volume of water removed from well 516.0 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development: can not hear surging @ 20' bow while drilling.
- Bailed out 4 full 4 gal bailers of brown, cloudy sediment filtered water, sediment cleared by 4th bailer. Bow @ 26.4 ft bgs after bailing, started @ 24.16 ft bgs.
- @ 80 gal of pumping, water was light grey/cloudy. water @ 150 gal of pumping was light yellow and mostly clear, the water stayed clear @ 250 gal through 500 gallons. Total water removed w/ bailer and pump = 516 gal. Bow @ 26.6 ft bgs

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.10</u> ft.	<u>3.10</u> ft.
Date	b. <u>06/01/2022</u> m m d d y y y y	<u>06/01/2022</u> m m d d y y y y
Time	c. <u>07:22</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>08:13</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>2.4</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Grey, visible sediment, cloudy</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Clear, light yellow color no visible sediment</u>

Fill in if drilling fluids were used and well is at solid waste facility: N/A

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Adam Last Name: Sockimser
Firm: Cascade Drilling LP

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Denice Last Name: Nelson
Facility/Firm: Tyco Fire Products, LP
Street: 2700 Industrial Parkway South
City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp
Print Name: Codyann Kolp
Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name EX-4
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 51 min.

4. Depth of well (from top of well casing) 31.3 ft.

5. Inside diameter of well 6.0 in.

6. Volume of water in filter pack and well casing 43.8 gal.

7. Volume of water removed from well 766.0 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

- Bailed ~ 10 gallons of cloudy brownish grey water w/ visible sediment that lessened by the 4th bailer. Bow before reaching @ 31.0 ft bgs, and was @ 31.3 ft bgs after bailer? Can now bailer hit hard surface @ 30 ft.
- water after pumping ~ 100 gal, brown & turbid. water after pumping 350 gal brown color, no visible sediment, mostly clear. @ 500 gal the water was brown colored, slightly cloudy, no visible sediment, amber color, clear, no visible sediment, no change in color, water @ 650 gal consistent w/ 650 gal. stop @ 750 pumped + 16 gal bailed = 766 gal w/ bow @ 31.3 ft bgs after pumping

11. Depth to Water (from top of well casing)

	Before Development	After Development
a.	<u>270</u> ft.	<u>210</u> ft.
Date	<u>06/01/2022</u>	<u>06/01/2022</u>
	m m d d y y y y	m m d d y y y y
Time	<u>08:39</u> a.m.	<u>09:52</u> a.m.
	<input type="checkbox"/> p.m.	<input type="checkbox"/> p.m.

12. Sediment in well bottom 3.6 inches 0.0 inches

13. Water clarity

Clear <input type="checkbox"/> 10	Clear <input checked="" type="checkbox"/> 20
Turbid <input checked="" type="checkbox"/> 15	Turbid <input type="checkbox"/> 25
(Describe) <u>Turbid,</u>	(Describe) <u>Clear, amber</u>
<u>brownish</u>	<u>color, no</u>
<u>grey color,</u>	<u>visible</u>
<u>visible sed,</u>	<u>sediment</u>
<u>cloudy</u>	

Fill in if drilling fluids were used and well is at solid waste facility: N/A

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Adam Last Name: Sockimsen
Firm: Cascade Drilling LP

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Denice Last Name: Nelson

Facility/Firm: Tyco Fire Products, LP

Street: 2700 Industrial Parkway South

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge. 31.3 ft bgs after pumping

Signature: Codyann Kolp

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name Ex-5
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 36 min.

4. Depth of well (from top of well casing) 53.1 ft.

5. Inside diameter of well 6.00 in.

6. Volume of water in filter pack and well casing 77.6 gal.

7. Volume of water removed from well 5200 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:
Bailed ~20 gallons of greyish brown water w/ sediment, sand, & gravel. Bow before
pumping @ 52.10 ft bgs and @ 53.10 ft bgs after bailing. Can hear bailer hitting
hard/firm surface @ Bow.
Pump water @ 100 gal = Grey, turbid, cloudy. Pump water @ 225 gal, translucent,
light grey, less visible sediment. Pump @ 350 gal, clear w/ light grey color.
Pump @ 500 gal clear, light yellow color, no visible sed, Bow remained @ 53.1 ft bgs. w/
520 total gal removed.

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>1.40</u> ft.	<u>1.40</u> ft.
Date	b. <u>06/01/2022</u> m m d d y y y y	<u>06/01/2022</u> m m d d y y y y
Time	c. <u>10:12</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:18</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>12.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Greyish brown color, sediment visible, sand & gravel</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>light yellow color, no visible sediment, clear</u>

Fill in if drilling fluids were used and well is at solid waste facility: N/A

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Adam Last Name: Jock Jensen
Firm: Cascade Drilling LP

Name and Address of Facility Contact / Owner / Responsible Party

First Name: Denice Last Name: Nelson

Facility/Firm: Tyco Fire Products, LP

Street: 2700 Industrial Parkway South

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name Ex-6	
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number	DNR Well ID Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well _____ min.
4. Depth of well (from top of well casing) 41.8 ft.
5. Inside diameter of well 6.00 in.
6. Volume of water in filter pack and well casing 57.4 gal.
7. Volume of water removed from well 512.0 gal.
8. Volume of water added (if any) N/A gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.00</u> ft.	<u>4.00</u> ft.
Date	b. <u>06/02/2022</u> m m d d y y y y	<u>06/02/2022</u> m m d d y y y y
Time	c. <u>08:35</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>09:33</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>light grey</u> <u>minor sediment</u> <u>cloudy</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>light yellow</u> <u>color, clear,</u> <u>no visible</u> <u>sediment</u>
Fill in if drilling fluids were used and well is at solid waste facility: <u>N/A</u>		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: <u>Adam</u>		Last Name: <u>Jock Imson</u>
Firm: <u>Cascade Drilling LP</u>		

17. Additional comments on development:
Bailed out ~ 12 gallons of light grey water w/ minor sediment. ^{after} BOW before bailing @ 41.7 ft bgs. Pump water @ 50 gal light greyish ~~color~~ yellow color, cloudy. Pump @ 150 gal, light yellow, cloudy. Pump @ 225 gal, light yellow, cloudy but less cloudy than @ 150 gal. Pump @ 500 gal, light yellow & clear. Removed 512 gal w/ pump and bails, BOW @ 41.8 ft bgs after pumping

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Denice Last Name: Nelson

Facility/Firm: Tyco Fire Products, LP

Street: 2700 Industrial Parkway South

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Tyco GETS System</u>	County Name <u>Marinette</u>	Well Name <u>EX-7R</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 210 min.
4. Depth of well (from top of well casing) 43 ft.
5. Inside diameter of well 6 in.
6. Volume of water in filter pack and well casing 62 gal.
7. Volume of water removed from well 400 gal.
8. Volume of water added (if any) — gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | Before Development | After Development |
|--|--|--|
| 11. Depth to Water (from top of well casing) | a. <u>3.25</u> ft. | <u>3.25</u> ft. |
| Date | b. <u>07/08/2022</u> | <u>07/08/2022</u> |
| Time | c. <u>11:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <u>15:30</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| 12. Sediment in well bottom | <u>—</u> inches | <u>—</u> inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10
Turbid <input checked="" type="checkbox"/> 15
(Describe) | Clear <input checked="" type="checkbox"/> 20
Turbid <input type="checkbox"/> 25
(Describe) |
- Fill in if drilling fluids were used and well is at solid waste facility:
14. Total suspended solids _____ mg/l _____ mg/l
15. COD _____ mg/l _____ mg/l
16. Well developed by: Name (first, last) and Firm
First Name: Steve Last Name: Argue
Firm: Cascade

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: James Bannantine

Firm: Geosyntec Consultants

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name Ex-8	
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number	DNR Well ID Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 31 min.
4. Depth of well (from top of well casing) 72.6 ft.
5. Inside diameter of well 6.00 in.
6. Volume of water in filter pack and well casing 834 gal.
7. Volume of water removed from well 5120 gal.
8. Volume of water added (if any) N/A gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

11. Depth to Water (from top of well casing)
- | | | |
|----|---------------------------|--------------------------|
| | <u>Before Development</u> | <u>After Development</u> |
| a. | <u>16.90</u> ft. | <u>16.10</u> ft. |
- Date b. 06/01/2022 06/01/2022
m m d d y y y y m m d d y y y y
- Time c. 1:00 a.m. p.m. 2:05 a.m. p.m.
12. Sediment in well bottom 2.4 inches 0.0 inches
13. Water clarity
- | | |
|---|--|
| Clear <input type="checkbox"/> 10 | Clear <input checked="" type="checkbox"/> 20 |
| Turbid <input checked="" type="checkbox"/> 15 | Turbid <input type="checkbox"/> 25 |
- (Describe) light grey, minor sediment, cloudy light yellow color, no visible sediment
- Fill in if drilling fluids were used and well is at solid waste facility: N/A
14. Total suspended solids _____ mg/l _____ mg/l
15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Adam Last Name: Jockimsen
Firm: Cascade Drilling LP

17. Additional comments on development:
Bailed out 12 gal of water, grey/cloudy, can hear bailer hit hard bow. Bow before bailing @ 72.4 ft bgs @ 72.6 ft bgs after bailing. Pump @ 50 gal water light brown & cloudy, water @ 100 gal pumped: light tan, less cloudy than @ 50 gal. @ 50 gal some as 100 gal. Pump water @ 425 gal light yellow, clear. Pump @ 500 gal clear, light yellow color. removed 512 gal w/ pump? bailer bow after pumping @ 72.6 ft bgs.

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Denice Last Name: Nelson

Facility/Firm: Tyco Fire Products, LP

Street: 2700 Industrial Parkway South

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: Codyann Kolp

Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco GETS Site	County Name Marinette County	Well Name Ex-9
Facility License, Permit or Monitoring Number 438005590	County Code 38	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 20 min.

4. Depth of well (from top of well casing) 40.1 ft.

5. Inside diameter of well 6.00 in.

6. Volume of water in filter pack and well casing 56.1 gal.

7. Volume of water removed from well 262.0 gal.

8. Volume of water added (if any) N/A gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.10</u> ft.	<u>3.10</u> ft.
Date	b. <u>06/02/2022</u>	<u>06/02/2022</u>
Time	c. <u>07:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>08:08</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.

12. Sediment in well _____ inches bottom _____ inches

13. Water clarity

Clear <input type="checkbox"/> 10	Clear <input checked="" type="checkbox"/> 20
Turbid <input checked="" type="checkbox"/> 15	Turbid <input type="checkbox"/> 25
(Describe) <u>grey color cloudy</u>	(Describe) <u>clear water,</u>
<u>minor sediment</u>	<u>no visible sediment or color</u>

Fill in if drilling fluids were used and well is at solid waste facility: N/A

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Adam Last Name: Jockimsen
Firm: Cascade Drilling LP

17. Additional comments on development:
Bow did not change during development. Bailer hit solid Bow w/ 12 gal bailed. Pump water @ 50 gal, light grey, cloudy, more clear than bailed water. Pump @ 200 gal, mostly clear, minor cloudiness, no color. Pump @ 250 gal, clear, no visible sediment or color. Removed 262 gal w/ pump & bailer.

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Denice Last Name: Nelson
Facility/Firm: Tyco Fire Products, LP
Street: 2700 Industrial Parkway South
City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Codyann Kolp
Print Name: Codyann Kolp
Firm: Geosyntec Consultants

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-47-40	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged with pump
3. Time spent developing well 30 min.
4. Depth of well (from top of well casing) 4 3 . 0 ft.
5. Inside diameter of well 2 . 0 in.
6. Volume of water in filter pack and well casing ~9 . 5 gal.
7. Volume of water removed from well 110 gal.
8. Volume of water added (if any) gal.
9. Source of water added
-
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | Before Development | After Development |
|--|---|--|
| 11. Depth to Water (from top of well casing) | a. <u>8 . 4</u> ft. | <u>8 . 49</u> ft. |
| Date | b. <u>08</u> / <u>10</u> / <u>2021</u> | <u>08</u> / <u>10</u> / <u>2021</u> |
| | m m d d y y y y | m m d d y y y y |
| Time | c. <u>8 : 05</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <u>8 : 43</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| 12. Sediment in well bottom | <u>0.03</u> inches | <u>0 . 0</u> inches |
| 13. Water clarity | Clear <input type="checkbox"/> 1 0
Turbid <input checked="" type="checkbox"/> 1 5
(Describe) <u>no change in water clarity after approx 20 min of development</u> | Clear <input checked="" type="checkbox"/> 2 0
Turbid <input type="checkbox"/> 2 5
(Describe) <u>visually clear; light brown in color</u> |
- Fill in if drilling fluids were used and well is at solid waste facility:
14. Total suspended solids mg/l mg/l
15. COD mg/l mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nathan Last Name: Nelson

Firm: Arcadis U.S., Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party


First Name: _____ Last Name: _____

Facility/Firm: Tyco FTC

Street: 2700 Industrial Parkway S

City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Erin Henry

Firm: Arcadis U.S., Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-51-38	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged with pump

3. Time spent developing well 107 min.

4. Depth of well (from top of well casing) 38.0 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ~9.1 gal.

7. Volume of water removed from well 300 gal.

8. Volume of water added (if any) gal.

9. Source of water added

10. Analysis performed on water added? Yes No
(If yes, attach results)


	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.42</u> ft.	<u>4.55</u> ft.
Date	b. <u>08</u> / <u>19</u> / <u>2021</u>	<u>08</u> / <u>19</u> / <u>2021</u>
	m m d d y y y y	m m d d y y y y
Time	c. <u>02</u> : <u>30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>04</u> : <u>26</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u> </u> inches	<u> </u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>cloudy</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u> </u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u> </u> mg/l	<u> </u> mg/l
15. COD	<u> </u> mg/l	<u> </u> mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Allan Last Name: Wood
Firm: Arcadis U.S., Inc.

17. Additional comments on development: No significant sediment noted at bottom of well prior to development

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: Tyco FTC
Street: 2700 Industrial Parkway S
City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 
Print Name: Erin Henry
Firm: Arcadis U.S., Inc.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-52-41	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged with pump

3. Time spent developing well 70 min.

4. Depth of well (from top of well casing) 40.6 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ~9.3 gal.

7. Volume of water removed from well 175 gal.

8. Volume of water added (if any) gal.

9. Source of water added

10. Analysis performed on water added? Yes No
(If yes, attach results)

11. Depth to Water Before Development After Development

(from top of well casing) a. 4.52 ft. 4.55 ft.

Date b. 08/17/2021 08/17/2021
m m d d y y y y m m d d y y y y

Time c. 03:25 a.m. p.m. 04:40 a.m. p.m.

12. Sediment in well bottom inches inches

13. Water clarity Clear 1 0 Clear 2 0
Turbid 1 5 Turbid 2 5
(Describe) (Describe)

cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Allan Last Name: Wood
Firm: Arcadis U.S., Inc.

17. Additional comments on development: No significant sediment noted at bottom of well prior to development

Name and Address of Facility Contact/Owner/Responsible Party


First Name: _____ Last Name: _____
Name: _____

Facility/Firm: Tyco FTC

Street: 2700 Industrial Parkway S

City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Erin Henry

Firm: Arcadis U.S., Inc.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-53-40	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged with pump

3. Time spent developing well 58 min.

4. Depth of well (from top of well casing) 40.0 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ~9.7 gal.

7. Volume of water removed from well 145 gal.

8. Volume of water added (if any) gal.

9. Source of water added

10. Analysis performed on water added? Yes No
(If yes, attach results)

11. Depth to Water Before Development After Development

(from top of well casing) a. 4.25 ft. 4.20 ft.

Date b. 08/18/2021 08/18/2021
m m d d y y y y m m d d y y y y

Time c. 03:10 a.m. p.m. 04:22 a.m. p.m.

12. Sediment in well bottom inches inches

13. Water clarity Clear 1 0 Clear 2 0
Turbid 1 5 Turbid 2 5
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Allan Last Name: Wood
Firm: Arcadis U.S., Inc.

17. Additional comments on development: No significant sediment noted at bottom of well prior to development

Name and Address of Facility Contact/Owner/Responsible Party

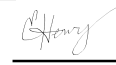
First Name: _____ Last Name: _____

Facility/Firm: Tyco FTC

Street: 2700 Industrial Parkway S

City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Erin Henry

Firm: Arcadis U.S., Inc.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-54-47	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged with pump

3. Time spent developing well 50 min.

4. Depth of well (from top of well casing) 47.5 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ~10.3 gal.

7. Volume of water removed from well 110 gal.

8. Volume of water added (if any) gal.

9. Source of water added

10. Analysis performed on water added? Yes No
(If yes, attach results)


17. Additional comments on development: No significant sediment noted at bottom of well prior to development

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.25</u> ft.	<u>3.3</u> ft.
Date	b. <u>08/11/2021</u>	<u>08/11/2021</u>
Time	c. <u>1:50</u> <input checked="" type="checkbox"/> p.m.	<u>2:40</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u> </u> inches	<u> </u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>cloudy</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u> </u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u> </u> mg/l	<u> </u> mg/l
15. COD	<u> </u> mg/l	<u> </u> mg/l

16. Well developed by: Name (first, last) and Firm
 First Name: Nathan Last Name: Nelson
 Firm: Arcadis U.S., Inc.

Name and Address of Facility Contact/Owner/Responsible Party
 First Name: Last Name:
 Facility/Firm: Tyco FTC
 Street: 2700 Industrial Parkway S
 City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 
 Print Name: Erin Henry
 Firm: Arcadis U.S., Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-55-64	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged with pump

3. Time spent developing well 83 min.

4. Depth of well (from top of well casing) 64 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ~10.5 gal.

7. Volume of water removed from well 160 gal.

8. Volume of water added (if any) gal.

9. Source of water added

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>18.4</u> ft.	<u>18.6</u> ft.
Date	b. <u>08/11/2021</u>	<u>08/11/2021</u>
Time	c. <u>10:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>12:37</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.

12. Sediment in well bottom inches inches

13. Water clarity

Clear <input type="checkbox"/> 1 0	Clear <input checked="" type="checkbox"/> 2 0
Turbid <input checked="" type="checkbox"/> 1 5	Turbid <input type="checkbox"/> 2 5
(Describe) <u>cloudy; visible fluorescein dye (used in drilling water prior to well installation)</u>	(Describe) <u>clear; visible dye</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Nathan Last Name: Nelson
Firm: Arcadis U.S., Inc.

17. Additional comments on development: No significant sediment noted at bottom of well prior to development

Name and Address of Facility Contact/Owner/Responsible Party


First Name: _____ Last Name: _____
Name: _____

Facility/Firm: Tyco FTC

Street: 2700 Industrial Parkway S

City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Erin Henry

Firm: Arcadis U.S., Inc.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-56-42	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other surged with pump

3. Time spent developing well 66 min.

4. Depth of well (from top of well casing) 42.75 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ~8.9 gal.

7. Volume of water removed from well 160 gal.

8. Volume of water added (if any) gal.

9. Source of water added

10. Analysis performed on water added? Yes No
(If yes, attach results)

11. Depth to Water Before Development After Development

(from top of well casing) a. 9.14 ft. 9.18 ft.

Date b. 08/11/2021 08/11/2021
m m d d y y y y m m d d y y y y

Time c. 09:05 p.m. 10:25 a.m. p.m.

12. Sediment in well bottom inches inches

13. Water clarity Clear 1 0 Turbid 1 5
(Describe) cloudy (Describe) clear of visible

 sediment; pale brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Nathan Last Name: Nelson
Firm: Arcadis U.S., Inc.

17. Additional comments on development: No significant sediment noted at bottom of well prior to development

Name and Address of Facility Contact/Owner/Responsible Party


First Name: _____ Last Name: _____
Name: _____

Facility/Firm: Tyco FTC

Street: 2700 Industrial Parkway S

City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Erin Henry

Firm: Arcadis U.S., Inc.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tyco FTC	County Name Marinette	Well Name PZ-57-38	
Facility License, Permit or Monitoring Number 438005590	County Code --	Wis. Unique Well Number --	DNR Well ID Number --

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other <u>surged with pump</u>	<input checked="" type="checkbox"/>	

3. Time spent developing well 93 min.

4. Depth of well (from top of well casing) 38.8 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ~8.9 gal.

7. Volume of water removed from well 230 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.95</u> ft.	<u>19.50*</u> ft.
Date	b. <u>08</u> / <u>17</u> / <u>2021</u>	<u>08</u> / <u>18</u> / <u>2021</u>
	m m d d y y y y	m m d d y y y y
Time	c. <u>05</u> : <u>10</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>08</u> : <u>45</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe)	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Allan Last Name: Wood

Firm: Arcadis U.S., Inc.

17. Additional comments on development: *19.50 ft bTOC measured at end of development; at start of second day of development, water level = 5.05 ft bTOC.

No significant sediment noted at bottom of well prior to development

Name and Address of Facility Contact/Owner/Responsible Party

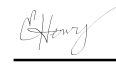
First Name: _____ Last Name: _____

Facility/Firm: Tyco FTC

Street: 2700 Industrial Parkway S

City/State/Zip: Marinette/Wisconsin/54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Erin Henry

Firm: Arcadis U.S., Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to DNR Bureau:		
<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input type="checkbox"/> Remediation/Redevelopment	
<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____		

1. Well Location Information				2. Facility / Owner Information			
County Marinette		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name Tyc0 FTC	
Latitude / Longitude (see instructions) ~463844.95 (state plane N) N ~2579755.60 (state plane E) W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input checked="" type="checkbox"/> OTH001		Facility ID (FID or PWS) 438005590	
1/4 / 1/4 or Gov't Lot #		Section		Township N		Range <input type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address Industrial Parkway S				Original Well Owner Johnson Controls			
Well City, Village or Town Marinette				Well ZIP Code 54143			
Subdivision Name				Lot #		Present Well Owner Johnson Controls	
Reason for Removal from Service Temporary Borehole				WI Unique Well # of Replacement Well _____		Mailing Address of Present Owner 2700 Industrial Parkway S	
City of Present Owner Marinette				State WI		ZIP Code 54143	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Original Construction Date (mm/dd/yyyy) 08/03/2021		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If a Well Construction Report is available, please attach.		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) 33		Did material settle after 24 hours? If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Casing Diameter (in.)		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) 6		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Casing Depth (ft.)		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input checked="" type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
If yes, to what depth (feet)?		Depth to Water (feet) 4.5			

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Cement Grout	Surface	33	

6. Comments	
VAP-54	

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Cascade (Arcadis oversight)	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/04/2021	Date Received	Noted By
Street or Route 6215 Lehman Dr	City Flint	State MI	Telephone Number (810) 877-7176	Comments
City Flint	State MI	ZIP Code 48507	Signature of Person Doing Work ** <i>Chris Peters</i>	Date Signed 07/06/2022

**Arcadis personnel that oversaw abandonment by Cascade is no longer an employee of Arcadis. Form signed and dated by Chris Peters, PG, Arcadis.